



**ISOLATES FROM HOSTS IN
HEMIPTERA or
THYSANOPTERA**

FULLY INDEXED

[INCLUDES 618 ISOLATES]

USDA-ARS Biological Integrated Pest Management Research
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IMPORTANT NOTE

Recent phylogenetically based reclassifications of fungal pathogens of invertebrates

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UPDATED July 2011

Some seemingly dramatic and comparatively recent changes in the classification of a number of fungi may continue to cause confusion or a degree of discomfort to many of the clients of the cultures and informational resources provided by the ARSEF culture collection. This short treatment is an attempt to summarize some of these changes, the reasons for them, and to provide the essential references to the literature in which the changes are proposed.

As the Curator of the ARSEF collection I wish to assure you that these changes are appropriate, progressive, and necessary to modernize and to stabilize the systematics of the fungal pathogens affecting insects and other invertebrates, and I urge you to adopt them into your own thinking, teaching, and publications.

The identifications in the ARSEF catalogs (<http://www.ars.usda.gov/Main/docs.htm?docid=12125>) incorporate these new classifications as soon as we can confirm the correct new identifications of fungi and, where genera or species are being split on molecular grounds, to determine and to apply the correct new identifications.

General Reclassification of Fungi

The results of a global cooperative effort involving dozens of mycologists (including the curator of this collection) to reclassify the fungi according to phylogenetically sound principles based on the DNA sequence data for multiple genes has recently resulted in the publication of two monumentally important publications that completely rework mycological systematics. The earlier publication was a phylogenetic overview of virtually all fungi (James *et al.* 2006). The second publication (Hibbett *et al.* 2007) provided the necessary taxonomic readjustments that were indicated by the phylogenetic studies.

Microsporidia

Many mycologists and invertebrate pathologists are now aware that the Microsporidia have been proven beyond any reasonable doubt to be comparatively recent and highly derived endobiotic fungi. They are neither extremely ancient eukaryotes nor affiliated with protozoans as most textbooks indicate. None of this realignment to the fungi is being disputed by either microsporidiologists or phylogenetic mycologists. The rationale for this realignment is presented succinctly in James *et al.* (2006). These fascinating organisms connect to the fungal tree of life at the base of the nonflagellate fungi (among or near the fungi traditionally treated as the Zygomycota) but their exact affinities and nearest remain uncertain.

Zygomycota, Zygomycotina, Zygomycetes and Entomophthorales

The phylogenetic reclassification of fungi (Hibbett *et al.*, 2007) significantly modified the traditional view of the most ancestral nonflagellate fungi. The phylum Zygomycota, subphylum Zygomycotina, and class Zygomycetes disappeared in their widely understood sense to be replaced by the phylum Glomeromycota (for arbuscular mycorrhizal fungi) and a series of new subphyla not yet assigned to any phylum (because of the obviously polyphyletic nature of the zygomycetes as traditionally treated). The Entomophthorales is reclassified in the subphylum Entomophthoromycotina Humber (in Hibbett *et al.* 2007); the other new subphyla in this group are the Mucormycotina, Zoopagomycotina and Kicxellomycotina. Where there had been some question about whether *Basidiobolus* and its close relatives should be retained in the Entomophthorales or moved to a position closer to some of the blastocladialean watermolds, James *et al.* (2006) unequivocally retain *Basidiobolus* in an ancestral position in the Entomophthorales.

Despite the short-term frustration of needing to deal with fungi belonging to these groups that the familiar concepts of Zygomycota, Zygomycotina and Zygomycetes are now abandoned. Until such a time as the molecular studies clarify the overall relationships among these fungi and establish a new set of phyla, my practical advice to the clientele of the ARSEF culture collection is to continue to use these discontinued phylum, subphylum and class names since (1) their meanings remain unambiguous in terms of the fungi included, and (2) journals and other outlets may remain unwilling or unable for some time still to handle the concepts of new subphyla with unassigned status ('*incertae sedis*').

Entomopathogenic Ascomycetes and Associated Anamorphic (Conidial) States

Among all of the major taxonomic changes within the fungi that affect entomopathogenic fungi, the most dramatic and far-reaching involve the ascomycetes and their conidial (anamorphic) states classified among the pyrenomycetous fungi of the order Hypocreales. In one of the first major changes to be noted, those ascomycetous entomopathogens whose ascospores are produced in perithecia (nearly closed spherical to flask-like fruiting bodies) are now put in the class Sordariomycetes, a name based on a valid generic name, rather than in the historically familiar class Pyrenomycetes, a name based on the morphology of the fruiting body. The great majority of these fungi have long been recognized to belong in the family Clavicipitaceae (mostly in the genera *Cordyceps*, *Torrubiella* or *Hypocrella*). A major phylogenetic reclassification of the Clavicipitaceae (Sung *et al.* 2007; available free of charge at <http://www.studiesinmycology.org>) has split this family into three (Table 1), a long overdue major reworking of the taxonomy of *Cordyceps* and, subsequently, a reshuffling of anamorphic states among these families. This publication by Sung *et al.* (2007) is very long and complex since it includes a highly detailed phylogenetic analysis of these fungi as well as presenting the new taxonomy, descriptions of new families, genera, and species, and a very large number of new combinations (mostly segregating *Cordyceps* into their newly described segregate genera), and listing of the known or suspected anamorphic states associated with these taxa.

Note that Table 1 shows *Torrubiella* to be split between two families. This is an untenable position in a phylogenetically based classification that requires all taxa to represent monophyletic lineages. Future phylogenetic studies that will result in the reclassification of *Torrubiella* are obviously required. Also note that some anamorphic states with morphologies referable to *Hirsutella*, *Paecilomyces* and *Verticillium* (the latter two genera in their old senses from before recent phylogenetic reclassifications discussed below) may occur in more than one family; this underscores the need to regard anamorphic states as being named in form-genera defined only by their morphologies and similar modes of development rather than by phylogenetic relatedness.

Table 1. Summary of some major teleomorphic (sexual) and anamorphic (conidial) genera of Hypocreales pathogenic to invertebrates (Sung *et al.* 2007).

	FAMILY		
	Clavicipitaceae	Cordycipitaceae	Ophiocordycipitaceae
Teleomorphs:	<i>Hypocrella</i> , <i>Metacordyceps</i> , <i>Regiocrella</i> , <i>Torrubiella</i>	<i>Cordyceps</i> s.str., <i>Torrubiella</i>	<i>Ophiocordyceps</i> , <i>Elaphocordyceps</i>
Anamorphs:	<i>Aschersonia</i> , <i>Metarhizium</i> , <i>Nomuraea</i> , <i>Paecilomyces</i> -like ¹ , <i>Pochonia</i> , <i>Rotiferophthora</i> , <i>Verticillium</i> -like ²	<i>Beauveria</i> , <i>Engyodontium</i> , <i>Isaria</i> , <i>Lecanicillium</i> , <i>Mariannaea</i> -like, <i>Microhilum</i> , <i>Simplicillium</i>	<i>Haptocillium</i> , <i>Harposporium</i> , <i>Hirsutella</i> , <i>Hymenostilbe</i> , <i>Paraisaria</i> , <i>Purpureocillium</i> <i>Sorosporella</i> , <i>Syngliocladium</i> , <i>Tolyphocladium</i> , <i>Verticillium</i> -like ²

¹ Species formerly in *Paecilomyces* sect. *Isarioidea*, now excluded from *Paecilomyces* in the strict sense but also from *Isaria* (which now includes most entomogenous species transferred from *Paecilomyces*).

² Species formerly in *Verticillium* sect. *Prostrata*, now excluded from *Verticillium* in the strict sense but not yet reclassified in the segregate genera recognized by Zare and Gams (see below).

Table 2. Publications eliminating and reclassifying *Verticillium* section *Prostrata*

PART	AUTHORS	SUBJECT COVERED
1	Zare, Gams & Culham (2000)	ITS sequence analyses
2	Sung, Spatafora <i>et al.</i> (2001)	SSU, LSU rDNA sequence analyses
3	Gams, Zare (2001)	Generic reclassification
4	Zare, Gams (2001)	<i>Lecanicillium</i> and <i>Simplicillium</i> monograph
5	Zare, Gams, Evans (2001)	<i>Pochonia</i> , <i>Rotiferophthora</i> monograph
6	Zare, Gams (2001)	<i>Haptocillium</i> monograph

Table 3. Current phylogenetically based classification within Hypocreales of some species formerly classified in *Paecilomyces* sect. *Isarioidea* (following Luangsa-ard *et al.* 2005; Sung *et al.* 2007; Luangsa-ard *et al.* 2011)

FAMILY	GENUS	INCLUDED SPECIES
Clavicipitaceae	' <i>Paecilomyces</i> ' ¹	<i>carneus</i> , <i>marquandii</i>
Cordycipitaceae	<i>Isaria</i>	<i>amoenorosea</i> , <i>cateniannulata</i> , <i>catenobliqua</i> , <i>cicadae</i> , <i>coleopterora</i> , <i>farinosa</i> , <i>fumosorosea</i> , <i>ghanensis</i> , <i>tenuipes</i>
Ophiocordycipitaceae	<i>Purpureocillium</i>	<i>lilacinum</i> (<i>syn.</i> : <i>Paec. lilacinus</i>)

¹ No generic re-assignments have been made for these hypocrealean anamorphs that continue (for lack of better alternatives) to be treated provisionally as *Paecilomyces* species. The generic affinities of other excluded '*Paecilomyces*' species noted by Luangsa-ard *et al.* (2005) remain uncertain.

Phylogenetically based reclassification of *Verticillium* section *Prostrata* – The extensive, phylogenetically based reclassifications of conidial fungi that common pathogens of insects or other invertebrates began with the reclassification of *Verticillium* species. The venerable classification of this genus (Gams 1971) recognized the sections *Verticillium* and *Prostrata*. All species in *Verticillium* sect. *Verticillium*, which included the phytopathogens with well differentiated, erect conidiophores, are anamorphs of perithecial ascomycetes in the order Phyllachorales. The species in *Vert.* sect. *Prostrata*, however, were anamorphs attributable to the order Hypocreales (Sordariomycetes). Because the current systematics practices recognize monophyletic taxa, it was necessary to remove the species from *Verticillium* section *Prostrata* to other genera. This reclassification was done in six publications (Table 2) reflecting primarily the doctoral research of Rasoul Zare under the guidance of Walter Gams. Most entomopathogens from this group are now placed in *Lecanicillium*, a genus whose type species, *L. lecanii*, was also recognized to be a species complex recognized to include at least three species (*L. lecanii*, *L. muscarium*, and *L. longisporum*) and thus replacing the morphologically highly variable *Verticillium lecanii*.

Phylogenetically based reclassification of *Paecilomyces* section *Isarioidea* – The long-used taxonomy of *Paecilomyces* by Samson (1974) divided this genus into two sections, and with all entomopathogens treated in *Paecilomyces* sect. *Isarioidea*. The type species, *P. variotii* Bainier, and all species in *Paecilomyces* sect. *Paecilomyces* are anamorphic (conidial) states of cleistothelial ascomycetes in the Eurotiomycetes. In an exact parallel with the situation for the two sections of *Verticillium*, all species in *Paec.* sect. *Isarioidea* are anamorphic states of pyrenomycete ascomycetes in the order Hypocreales, mostly in the family Clavicipitaceae although the reclassification of that family by Sung *et al.* (2007) now disperses these former *Paecilomyces* species among three families (Table 3). The taxonomic revision of *Paecilomyces* section *Prostrata* began with the lectotypification and determination of the status of *Isaria* (Hodge *et al.* 2005), a genus long ago relegated to synonymy with *Paecilomyces*, and the formal conservation of the generic name *Isaria* (Gams *et al.* 2005). The next step was a phylogenetic study that confirmed the polyphyletic nature of *Paecilomyces* in the broad sense (Luangsa-ard *et al.* 2004), followed then by a formal reclassification (with new combinations) of most species from *Paec.* sect. *Isarioidea* into *Isaria* while several other species from this section were excluded from both *Paecilomyces* and *Isaria* and still await transfers into appropriate anamorphic genera (Table 3). Most recently, *Paec. lilacinus* was transferred to a new (as yet monotypic) genus in Ophiocordycipitaceae as *Purpureocillium lilacinum* (Luangsa-ard *et al.* 2011).

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ARS COLLECTION OF ENTOMOPATHOGENIC FUNGAL CULTURES

History and Purpose of the ARSEF Collection

The goal of the ARS Collection of Entomopathogenic Fungal Cultures (ARSEF) is to provide fundamental support for basic and applied research on the fungal pathogens of invertebrates. Since its establishment in the early 1970s, this collection has served as a general research resource for the isolation, collection, preservation, and distribution of fungal strains from insects, other arthropods, and nematodes. Emphasis has always been placed on acquiring and distributing strains under active study for use as potential biological control agents. Basic research associated with the collection includes fungal systematics, fungal cytology, pathobiology, and methodology for fungal cryopreservation. The culture collection and its associated collection of microscope slides and herbarium specimens provide invaluable support for taxonomic research on and the diagnoses of fungal pathogens of invertebrates. Identification services for specimens and cultures have always been available free of charge to any laboratories requesting them.

We strive to provide users with pure and accurately identified fungal cultures., and the taxonomies applied to the fungi in this collection are continuously updated to reflect their current accepted classifications. The curator of the collection welcomes all correspondence about nomenclatural or taxonomic changes or possible misidentifications involving any ARSEF strains.

The ARSEF collection began as Richard Soper's research collection in the USDA-ARS laboratory at the University of Maine (Orono; UMO) where its cultures were at initially designated by a UMO or RS prefix before adopting ARSEF in 1985. In 1978, the ARS Insect Pathology Research Unit relocated to Ithaca, NY, to work with the Boyce Thompson Institute (BTI) on the Cornell University campus. The Insect Pathology Research Unit became the Plant Protection Research Unit (PPRU) in 1985, and was renamed in 2008 as the Biological Integrated Pest Management Research Unit (BioIPM). The ARSEF collection moved from BTI in 1990 into the US Plant, Soil & Nutrition Laboratory which was rededicated in 2008 as the Robert W. Holley Center for Agriculture & Health to commemorate Dr. Holley's work there to complete the first sequencing of any nucleic acid; he received the 1968 Nobel Prize for Medicine or Physiology for this work.

BioIPM operates the ARSEF culture collection for the USDA Agricultural Research Service; the collection is not now and has never been owned or controlled by the Boyce Thompson Institute. ARSEF is one of the largest germplasm collections in the ARS, and is widely recognized for its active support of research on fungal pathogens of invertebrates. ARSEF and its associated herbarium are registered under the ARSEF acronym since 1985 with the World Federation of Culture Collections' World Data Center on Microorganisms and the International Association of Plant Taxonomists' *Index Herbariorum*, respectively.

From 1977 through 2008, all strains in the collection were preserved by immersion in liquid nitrogen. A program to lyophilize those isolates that could tolerate such was begun in the 1990's, and has expanded in scope and pace. At the end of 2008 the vast majority of the collection was consolidated in a single large nitrogen dewar in a new facility adjacent to the current building. Requests for cultures are filled with either actively growing cultures on appropriate media or, if available, as freeze-dried units.

Identifying and Acknowledging ARSEF Strains in Publications

We request that all publications using or referring to strains obtained from ARSEF acknowledge the U.S. Department of Agriculture, ARS Plant Protection Research Unit and state the ARSEF accession numbers of these strains. We would very greatly appreciate receiving reprints of all past, current, and future publications or even periodic notification about research in progress involving the use of ARSEF strains.

Accession numbers of strains from commercial culture collections such as the American Type Culture Collection (ATCC), Centraalbureau voor Schimmelcultures (CBS), CAB International Mycological Institute (IMI), and other registered general service collections are listed in this catalog to provide complete information about specific isolates. ***Representation of cultures obtained from ARSEF as being from ATCC, CBS, IMI or UAMH or other general service culture collections violates trademark laws, and persons doing so are subject to prosecution.*** Cultures received from ARSEF should be referred to by their ARSEF numbers only even if they are co-deposited in other other culture collections.

Depositing and Exchanging Cultures

BioIPM and ARSEF encourage deposition of entomopathogenic fungal cultures in the ARSEF collection—particularly strains used in published studies—and of voucher and reference specimens to its herbarium. Depositors may reserve the right to limit redistribution of any culture deposited with ARSEF for specified times upon consultation with the curator. Depositors can receive subcultures of their own depositions at any time; these cultures do not affect any allowances of free cultures. Exchanges of cultures between ARSEF and other research or general collections of fungal cultures are encouraged and are not subject to numerical limits.

Prior to shipping cultures from countries outside the United States contact the Curator to obtain the appropriate needed importation permit from the U.S. Department of Agriculture, Animal and Plant Health Inspection Services, Plant Protection and Quarantine.

When sending cultures and/or specimens to ARSEF, it is very important to include as much of the following information as possible:

1. Scientific name (and taxonomic authority) of the fungus.
2. Common and scientific name (with taxonomic authority) of the host.
3. Order and family of the host. (***This information is especially important!***)
4. Date and site of collection.
5. Name of collector.
6. Date and name of isolator.
7. Any collection, accession, or other identifier number(s) applied by the collector or sender.
8. Medium on which a culture is sent.
9. Any special requirements or conditions for growth (such as medium, temperature, pH).

Diagnostic Services for Cultures and Specimens

Specimens and cultures of unidentified fungi from invertebrates can be submitted to ARSEF for diagnosis. This service is an important function of the ARS Collections of Entomopathogenic Fungi and is provided without charge. Identifications and information about the disposition of specimens will be mailed to the sender.

Release of ARSEF Cultures from Containment or Quarantine

Neither the curator nor any employee of ARSEF or of the Plant Protection Research Unit is entitled to authorize the release of any culture it provides from laboratory containment or quarantine in the United States or elsewhere. Recipients of ARSEF cultures are responsible for obtaining appropriate and necessary permissions from or for providing official notifications to State and Federal regulatory agencies.

ORDERING INFORMATION

Please send all requests for isolates directly to the Curator (Richard A. Humber):

ARS Collection of Entomopathogenic Fungal Cultures
Robert W. Holley Center for Agriculture & Health
Tower Rd.
Ithaca, NY 14853-2901

Telephone: [+1] 607 255-1276
OR
Fax: [+1] 607 255-1132
Email: richard.humber@ars.usda.gov

Academic, Government, and Other Nonprofit Institutions

1–5 isolates [up to 7 per calendar year]	no charge
6 or more isolates per order [8 or more per calendar year]	US\$50 per strain

Users from nonprofit institutions can receive up to five isolates without charge in any 6 month period, and up to seven cultures in any calendar year. Requests in excess of these limits may be charged at the rate of US\$50 per additional isolate requested. Requests from commercially sponsored research programs undertaken by nonprofit institutions are charged at the commercial rate and are not subject to numerical limits. Prices are subject to change without notice.

Commercial and Industrial Institutions

US\$75 per strain

Nonprofit institutions working on commercially sponsored contractual projects (such as screening programs) are charged at the rate of US\$75 per strain requested. There are no limits on the numbers of cultures that can be requested or shipped. Prices are subject to change without notice.

Commercial or industrial firms supporting research at the ARS Plant Protection Research Unit are entitled to free access to cultures pertinent to contracted projects; all other requests are charged at the current rate.

TERMS OF SHIPMENT

If necessary, billings for isolates are issued through the Boyce Thompson Institute (BTI). *Checks or money orders for strains must be payable to the Boyce Thompson Institute* and sent directly to the curator of the ARS Collections of Entomopathogenic Fungi, to BTI or deposited by direct electronic funds transfer according to information provided by BTI. Consult the curator of the collections with questions about fees due for any particular shipment.

All recipients of cultures are strongly encouraged to provide express shipper account numbers to allow shipping costs to be billed directly to recipients, thus assuring significant cost-savings to the ARSEF collection.

We request confirmation of receipt and viability of cultures shipped. Inviable strains will be replaced.

ARSEF reserves the right to refuse to ship isolates

- to recipients who cannot handle them using standard microbiological practices,
- to laboratories that cannot assure laboratory containment of isolates except after obtaining permissions from applicable State and Federal regulatory agencies, or
- if use of routine mailing or shipping procedures cannot assure the receipt of viable cultures.

Neither ARSEF, BiolPM, nor the Boyce Thompson Institute is liable for damages arising from the misidentification of strains.

INTERPRETATION OF STRAIN ACCESSION DATA

The following examples provide a guide to the arrangement and interpretation of collection data included in this catalog.

***Beauveria bassiana* (Balsamo) Vuillemin**

1564 [CBS 111238]. KV Deséo (103) Cortellini. Pupa, *Hyphantria cunea* [Lepidoptera: Arctiidae]. Mar 1984. Italy: Villa Cadé (Reggio Emilia), Emilia-Romagna. Identification verified genomically. Ex-type isolate.

1564	ARSEF accession number.
[CBS 111238]	Alternative deposition in another culture collection.
KV Deséo (03)	Depositor and depositor's reference or accession number.
Cortellini	Collector of this isolate.
<i>Hyphantria cunea</i> [Lepidoptera: Arctiidae]	Original host [host's order and family]
Mar 1984	Date of accession or receipt by ARSEF.
Italy: Villa Cadé (Reggio Emilia), Emilia-Romagna	Country of origin followed by the locality and state.
Identification verified genomically. Ex-type isolate	Additional essential information about this isolate.

***Conidiobolus thrombooides* Drechsler**

73 [CSIRO EM534; FPMI 28] RG Kenneth (3040) ← ATCC (24419) ← DM MacLeod ← G Thoizon. *Rhopalosiphum insertum* [Homoptera: Aphididae]. Rec'd 18 Jan 1976. France: Val-de-Marne, La Varenne.

73	ARSEF accession number.
[CSIRO EM534; FPMI 28]	Alternative depositions of this strain in other culture collections.
RG Kenneth (3040)	Depositor and depositor's reference or accession number.
← ATCC (24419 ← DM MacLeod ← G Thoizon	Culture provenance: RG Kenneth obtained the culture from ATCC, which received it from DM MacLeod, who received it from G Thoizon.
<i>Rhopalosiphum insertum</i> [Acari: Eriophyidae]	Original host [host's order and family]
Rec'd Jan 18 1976	Date of receipt by ARSEF.
France: Val-de-Marne, La Varenne	Country of origin followed by the locality and region.

***Hirsutella thompsonii* Fisher**

137 [ATCC 24874; CBS 952.73] CW McCoy (Fla. 68). *Phyllocoptrus oleivora* [Acar: Eriophyidae]. 1 Jan 1970. USA: Orlando, Florida.

137	ARSEF accession number.
[ATCC 24874; CBS 952.73]	Alternative depositions of this strain in other culture collections.
CW McCoy (Fla. 68)	Depositor and depositor's reference or accession number.
<i>Phyllocoptrus oleivora</i> [Homoptera: Aphididae]	Original host together with the host's order and family.
Jan 1 1970	Date of accession or receipt by ARSEF. Note: January 1 is a default date if an exact date in a year is unknown; the first day of the month is the default if no specific day in a month is known.
USA: Orlando, Florida	Country of origin followed by the locality and state.

ABBREVIATIONS

Information about the world's officially registered culture collections, their registered acronyms (e.g., ARSEF), and more is available from the CCINFO database and from other resources available at the website of the World Data Center for Microbiology <http://wdcm.nig.ac.jp/WDCHomePage_text.html>

ARSEF	ARS Collection of Entomopathogenic Fungi, USDA-ARS BioIPM Research Unit, Robert W. Holley Center for Agriculture & Health, 538 Tower Rd., Ithaca, New York, 14853-2901, USA
ATCC	American Type Culture Collection, PO Box 1549, Manassas, Virginia 20108, USA
CATIE	Centro Agronómico Tropical de Investigación y Enseñanza, Proyecto UIP, Apdo. Postal 7170, Turrialba, Costa Rica.
CBS	Centraalbureau voor Schimmelcultures, Uppsalaalaan 8, 3584 CT Utrecht, The Netherlands
CCF	Culture Collection of Fungi, Department of Botany, Charles University, Prague, Czech Republic
CCFC	Canadian Collection of Fungus Cultures, Centre for Land and Biological Resources Research, Room 1015, K.W. Neatby Bldg., Ottawa, Ontario K1A 0C6, Canada
CDC	Centers for Disease Control and Prevention, Atlanta, Georgia 30333, USA
CENARGEN	Centro Nacional de Pesquisa de Recursos Geéticos e Biotecnologia, S.A.I.N. Parque Rural, C.P. 102372, 70770 Brasília, D.F., Brazil
CIRI	Corn Insects Research Unit, USDA-ARS, R.R. Box 45B, Ankeny, Iowa 50021, USA
CNPAF	National Center for Agricultural Research on Rice and Beans, EMBRAPA, Goiânia, Goiás, Brazil
CNPS	National Center for Agricultural Research on Soybeans, EMBRAPA, Londrina, Paraná, Brazil
CP	Strains isolated during joint US-Brazil program funded by US-AID to study fungal biocontrol of the insect pests of cowpeas
DAOM	National Mycological Herbarium, Centre for Land and Biological Resources Research, Agriculture Canada, Central Experimental Farm, Ottawa, Ontario, K1A 0C6, Canada
DAR	New South Wales Department of Agriculture, Rydalmere, NSW, Australia
EFCC	Korean Entomopathogenic Fungal Collection (JM Sung, Curator), Dept. of Agricultural Biology, Kangwon National University, Chuncheon, Rep. of Korea
FI	CSIRO Entomology Division, Collection of Entomopathogenic Fungi, Black Mountain Laboratories, Canberra, ACT, Australia. This collection, formerly curated by R. Milner, is now orphaned and is being transferred to ARSEF.
FPMI	Great Lakes Forestry Center (formerly Forest Pest Management Institute), 1219 Queen Street East, Sault Ste. Marie, Ontario P6A 5M7, Canada. This collection, formerly led by D MacLeod and D Tyrrell is orphaned and endangered. Its surviving isolates <i>may</i> be

transferred to DAOM.

GCRI	Horticulture Research International (formerly, Glasshouse Crops Research Institute), Worthing Road, Littlehampton, W. Sussex BN17 6LP, England, UK
HACC	Hindustan Antibiotics Ltd., Pimpri, Poona, India
IMI	(Now incorporated in United Kingdom National Culture Collection [UKNCC]) CABI Bioscience, Bakeham Lane, Egham, Surrey TW20 9TY, UK
INRA	Station de Recherches de lutte Biologique et Biocoenotique, INRA (Institut National de la Recherche Agronomique), La Minière – 78280 Guyancourt, France
IPLB	Unité de Lutte Biologique, Institut Pasteur, 28 Rue de Dr. Roux, 75724 Paris, France
IRRI	International Rice Research Institute, P.O. Box 933, Manila, Philippines
KEFC	(see EFCC)
KSU	Kansas State University, Department of Entomology, Manhattan, Kansas 66506, USA
MAF	Ministry of Agriculture and Fisheries, Canterbury Agriculture and Science Centre, Ellesmere Junction Road, P.O. Box 24, Lincoln, New Zealand
MU	Miami University, Willard Sherman Turrell Herbarium, Department of Botany, 79 Upham Hall, Oxford, Ohio 45056, USA
NCTC	National Collection of Type Cultures, Public Health Laboratory Service, 61 Colindale Ave., London NW9 5HT, England, UK
NRRL	ARS Culture Collection, USDA-ARS National Center for Agricultural Utilization Research, 1815 N. University, Peoria, Illinois 61604, USA
PSU	<i>Fusarium</i> Research Center, The Pennsylvania State University, 216 Buckhout Laboratory, University Park, Pennsylvania 16802, USA
QEC	Queen Elizabeth College, University of London, Department of Biology, Campden Hill Road, London W8 7AH, England, UK
QM	U.S. Army Natick Laboratories (formerly, Quartermaster Research and Development Center), Natick Massachusetts. Note: This collection has been transferred to NRRL.
RSA	Rancho Santa Ana Botanic Garden, 1500 North College Ave., Claremont, California 91711, USA
SBI	Sugarcane Breeding Institute, Indian Council of Agricultural Research, Coimbatore – 641 007, Tamil Nadu, India
UAF	University of Arkansas, Edpartment of Entomology, 321 Agriculture Building, Fayetteville, Arkansas 72701, USA
UAMH	University of Alberta Microfungus Collection, Devonian Botanic Garden, University of Alberta, Alberta T6G 2H7, Canada

Fungal Cultures

Acremonium sp.
Beauveria sp.

Acremonium sp.

[Sordariomycetes: Hypocreales]

- 4063 T Steenberg (TT5) ← H Brødsgaard. *Thrips tabaci* [Thysanoptera: Thripidae]. Jul 1989. Denmark: Greenhouse, Lyngby, Zealand.

Acremonium bactrocephalum W Gams

[Sordariomycetes: Hypocreales]

- 10166 [ERL 1828] S Gouli (Thr.-10-36) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Richford, Vermont.
- 10167 [ERL 1829] S Gouli and V Gouli (Thr.-10-37). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10168 [ERL 1830] S Gouli (Thr.-10-38) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10169 [ERL 1831] S Gouli and V Gouli (Thr.-10-39). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Langdon, New Hampshire.

Acremonium psammosporum W Gams

[Sordariomycetes: Hypocreales]

- 4062 T Steenberg (TT3) ← H Brødsgaard. *Thrips tabaci* [Thysanoptera: Thripidae]. Jul 1989. Denmark: Greenhouse, Lyngby, Zealand.

Acremonium(?) sp.

[Sordariomycetes: Hypocreales]

- 7031 RG Hollingsworth (KNF2001-10). *Frankliniella occidentalis* [Thysanoptera: Thripidae] from laboratory colony. 16 May 2001. USA: U. S. Pacific Basin Agricultural Research Center, Hilo, Hawaii.

Aphanocladium album (Preuss) Gams

[Sordariomycetes: Hypocreales]

Nectriaceae

- 5756 BL Parker (SPT 026/2). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 21 Jan 1998. Syria: Al Kilabia.

Aspergillus sp.

[Eurotiomycetes: Eurotiales]

Trichocomaceae

- 6399 B Tunali (20). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 5 Jul 1999. Turkey: Kinkkale, Ankara.
- 6405 B Tunali (29). *Dolycorus* sp. [Hemiptera: Pentatomidae]. 4 Oct 1999. Turkey: Adiyaman.
- 6406 B Tunali (31). *Dolycorus* sp. [Hemiptera: Pentatomidae]. 4 Oct 1999. Turkey: Adiyaman.
- 6408 B Tunali (33). *Dolycorus* sp. [Hemiptera: Pentatomidae]. 4 Oct 1999. Turkey: Adiyaman.
- 8280 BN Tiwary (IF-7). *Nezara viridula* [Hemiptera: Pentatomidae]. 4 Nov 2005. India: Purnea, Bihar.

Aspergillus niger van Tieghem

[Eurotiomycetes: Eurotiales]

Trichocomaceae

- 5721 L Erkiliç (Belen-1). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 30 Mar 1998. Turkey: Belen, Gaziantep.
- 6407 B Tunali (32). *Dolycorus* sp. [Hemiptera: Pentatomidae]. 4 Oct 1999. Turkey: Kollubaba.

Aspergillus ochraceus Wilhelm

[Eurotiomycetes: Eurotiales]

Trichocomaceae

- 5722 L Erkiliç (Karadag-1). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 30 Mar 1998. Turkey: Karadag, Gaziantep, Gaziantep.

Beauveria sp.

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Almost all strains listed here closely resemble *B. bassiana* (or *B. brongniartii*) but were not so identified because of small (and possibly insignificant) differences in conidia size and/or shape.

- 1195 TJ Poprawski (001). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 18 May 1983. Italy: Vetralla, Lazio.
- 1196 TJ Poprawski (002). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 20 May 1983. Italy: Vetralla, Lazio.
- 1197 TJ Poprawski (004). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 20 May 1983. Italy: Vetralla, Lazio.
- 1198 TJ Poprawski (005). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 20 May 1983. Italy: Vetralla, Lazio.
- 1199 TJ Poprawski (013). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 23 May 1983. Italy: Manciano, Toscana.
- 1200 TJ Poprawski (014). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 23 May 1983. Italy: Manciano, Toscana.
- 1201 TJ Poprawski (023). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 May 1983. Italy: Vetralla, Lazio.
- 1202 TJ Poprawski (024). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 May 1983. Italy: Vetralla, Lazio.
- 1203 TJ Poprawski (025). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 May 1983. Italy: Vetralla, Lazio.
- 1204 TJ Poprawski (026). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 May 1983. Italy: Vetralla, Lazio.
- 1205 TJ Poprawski (027). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 May 1983. Italy: Vetralla, Lazio.

- 1206 TJ Poprawski (028). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 May 1983. Italy: Vetralla, Lazio.
- 1207 TJ Poprawski (030). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 May 1983. Italy: Vetralla, Lazio.
- 1208 TJ Poprawski (034). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 May 1983. Italy: Piancastagnaio, Toscana.
- 1209 TJ Poprawski (035). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 22 May 1983. Italy: Acquapendente, Lazio.
- 1210 TJ Poprawski (037). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 25 May 1983. Italy: Acquapendente, Lazio.
- 1211 TJ Poprawski (038). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 25 May 1983. Italy: Acquapendente, Lazio.
- 1213 TJ Poprawski (046). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 25 May 1983. Italy: Acquapendente, Lazio.
- 1214 TJ Poprawski (047). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 25 May 1983. Italy: Acquapendente, Lazio.
- 1215 TJ Poprawski (049). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 25 May 1983. Italy: Acquapendente, Lazio.
- 1216 TJ Poprawski (050). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 1 Jun 1983. Italy: Acquapendente, Lazio.
- 1218 TJ Poprawski (051). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 1 Jun 1983. Italy: Acquapendente, Lazio.
- 1219 TJ Poprawski (052). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 1 Jun 1983. Italy: Acquapendente, Lazio.
- 1220 TJ Poprawski (057). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 7 Jun 1983. Italy: Acquapendente, Lazio.
- 1221 TJ Poprawski (059). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 7 Jun 1983. Italy: Acquapendente, Lazio.
- 1222 TJ Poprawski (060). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 7 Jun 1983. Italy: Acquapendente, Lazio.
- 1224 TJ Poprawski (061). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 7 Jun 1983. Italy: Acquapendente, Lazio.
- 5686 BL Parker (SPT-101). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 19 Jan 1998. Turkey: Belen, Gaziantep.
- Beauveria bassiana*** (Balsamo-Crivelli) Vuillemin
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Major synonym: *Beauveria densa* (Link:Fries) Picard
- 300 RS Soper. *Nysius vinitor* [Hemiptera: Lygaeidae] on sunflower. 17 Jan 1979. Australia: Tamworth, New South Wales. Identification verified genomically.
- 320 GR Buckingham. *Mesovelia mulsanti* [Hemiptera: Mesovelidae]. Dec 1978. USA: Gainesville, Florida.
- 560 RS Soper (8132). *Leptocoris* sp. [Hemiptera: Rhopalidae]. 2 Mar 1981. Indonesia: SE of Mataram, Lombok Island.
- 566 RS Soper (81226-3). *Leptocoris* sp. [Hemiptera: Rhopalidae]. 26 Feb 1981. Indonesia: N of Yogyakarta, Sleman District, Yogyakarta, Java.
- 737 [CNPAF 82-1-26-01; CP 20] RA Daoust ← E Ferreira. [Hemiptera: Pentatomidae]. 26 Jan 1982. Brazil: CNPAF, Goiânia, Goiás.
- 792 [KSU RLCO] WA Ramoska. Adult, *Blissus leucopterus* [Hemiptera: Lygaeidae]. Summer 1981. USA: Riley County, Kansas.
- 812 GG Soares (3) ← G Euverte. Overwintering adults, *Corythucha ciliata* [Hemiptera: Tingidae]. 18 Feb 1981. France: Avignon, Vaucluse.
- 886 GG Soares (34) ← D Covtinot. Adult, *Lygus* sp. [Hemiptera: Miridae]. Sep 1982. Spain: Burgos.
- 933 [CNPAF 82-12-20-02; CP 71] RA Daoust ← E Ferreira. *Tibraca limbaticollis* [Hemiptera: Pentatomidae]. 20 Dec 1982. Brazil: CNPAF, Goiânia, Goiás.
- 944 [CNPAF 83-03-16F; CP 85] RA Daoust and BP Magalhães. [Hemiptera: Pentatomidae]. 16 Mar 1983. Brazil: Ponta Porã, Mato Grosso.
- 1054 [CNPS 15] F Moscardi. *Nezara viridula* [Hemiptera: Pentatomidae]. 1983. Brazil: Londrina, Paraná.
- 1269 [IRRI Pal. 2] MC Rombach. *Leptocoris oratorius* [Hemiptera: Rhopalidae] on rice. Acc'd 3 May 1984. Philippines: Palawan.
- 1270 [IRRI O2III] MC Rombach. *Leptocoris oratorius* [Hemiptera: Rhopalidae] on rice. Acc'd 3 May 1984. Philippines: Palawan.
- 1317 TJ Poprawski (074A). Nymph, *Lygus ?lineolaris* [Hemiptera: Miridae]. 18 Mar 1983. France: Choisy-en-Brie, Haute-Savoie.
- 1318 TJ Poprawski (074B). Nymph, *Lygus ?lineolaris* [Hemiptera: Miridae]. 18 Mar 1983. France: Choisy-en-Brie, Haute-Savoie.
- 1319 TJ Poprawski (076). Nymph, *Lygus ?lineolaris* [Hemiptera: Miridae]. 30 Mar 1983. France: Senneville.
- 1320 TJ Poprawski (078). Nymph, *Lygus ?lineolaris* [Hemiptera: Miridae]. 30 Mar 1983. France: Senneville.
- 1321 TJ Poprawski (079B). Nymph, *Lygus ?lineolaris* [Hemiptera: Miridae]. 30 Mar 1983. France: Senneville.

- 1322 TJ Poprawski (079C). Nymph, *Lygus ?lineolaris* [Hemiptera: Miridae]. 30 Mar 1983. France: Senneville.
- 1323 TJ Poprawski (079D). Nymph, *Lygus ?lineolaris* [Hemiptera: Miridae]. 30 Mar 1983. France: Senneville.
- 1324 TJ Poprawski (079E). Nymph, *Lygus ?lineolaris* [Hemiptera: Miridae]. 30 Mar 1983. France: Senneville.
- 1325 TJ Poprawski (079F). Nymph, *Lygus ?lineolaris* [Hemiptera: Miridae]. 30 Mar 1983. France: Senneville.
- 1394 TJ Poprawski (071). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 18 Aug 1983. France: Choisy-en-Brie, Haute-Savoie.
- 1395 TJ Poprawski (075). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 23 Aug 1983. France: Saint-Denis du Pin, Seine-Saint-Denis.
- 1396 TJ Poprawski (077A). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 30 Aug 1983. France: Senneville.
- 1397 TJ Poprawski (077B). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 30 Aug 1983. France: Senneville.
- 1404 TJ Poprawski (092A). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 9 Sep 1983. France: Fort la Latte.
- 1405 TJ Poprawski (092B). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 9 Sep 1983. France: Fort la Latte.
- 1406 TJ Poprawski (093A). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 7 Sep 1983. France: Fort la Latte.
- 1407 TJ Poprawski (093B). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 7 Sep 1983. France: Fort la Latte.
- 1408 TJ Poprawski (094A). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 7 Sep 1983. France: Fort la Latte.
- 1409 TJ Poprawski (094B). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 7 Sep 1983. France: Fort la Latte.
- 1410 TJ Poprawski (095). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 7 Sep 1983. France: Fort la Latte.
- 1411 TJ Poprawski (096A). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 7 Sep 1983. France: Fort la Latte.
- 1412 TJ Poprawski (096B). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 7 Sep 1983. France: Fort la Latte.
- 1413 TJ Poprawski (097). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 13 Oct 1983. France: Senneville.
- 1414 TJ Poprawski (099). Nymph, *Lygus* sp. [Hemiptera: Miridae]. May 1984. France: Senneville.
- 1457 [CNPAF 84-03-28-1A; CP 147] RA Daoust. *Podisus* sp. [Hemiptera: Pentatomidae]. 28 Mar 1984. Brazil: Cascavel, Paraná.
- 1474 [CNPAF 84-04-02-1A; CP 164] RA Daoust, BP Magalhães and M Pinat. *Nezara viridula* [Hemiptera: Pentatomidae]. 2 Apr 1984. Brazil: Chapecó, Santa Catarina.
- 1478 SB Alves (256). *Euschistus heros* [Hemiptera: Pentatomidae] on soybean. Rec'd 6 Jul 1984. Brazil: Goiás. Identification verified genetically.
- 1516 TJ Poprawski (0108). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 19 Aug 1984. France: Senneville.
- 1517 TJ Poprawski (0109). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 19 Jun 1984. France: Dagny.
- 1520 TJ Poprawski (0117A). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 27 Jun 1984. France: Prades, Pyrénées-Orientales.
- 1521 TJ Poprawski (0117B). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 27 Jun 1984. France: Prades, Pyrénées-Orientales.
- 1523 TJ Poprawski (0122). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 5 Jul 1984. France: Ronce.
- 1524 TJ Poprawski (0123). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 5 Jul 1984. France: Ronce.
- 1525 TJ Poprawski (0124A). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 5 Jul 1984. Italy: Manciano, Toscana.
- 1526 TJ Poprawski (0124B). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 5 Jul 1984. Italy: Manciano, Toscana.
- 1527 TJ Poprawski (0125). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 5 Jul 1984. Italy: Manciano, Toscana.
- 1528 TJ Poprawski (0126). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 5 Jul 1984. Italy: Manciano, Toscana.
- 1529 TJ Poprawski (0127A). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 5 Jul 1984. Italy: Orvieto, Umbria.
- 1531 TJ Poprawski (0127B). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 5 Jul 1984. Italy: Orvieto, Umbria.
- 1533 TJ Poprawski (0128A). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 11 Jul 1984. Austria: Burgenland.
- 1534 TJ Poprawski (0128B). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 11 Jul 1984. Austria: Burgenland.
- 1535 TJ Poprawski (0130A). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 11 Jul 1984. Austria: Burgenland.
- 1536 TJ Poprawski (0130B). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 11 Jul 1984. Austria: Burgenland.
- 1537 TJ Poprawski (0131A). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 11 Jul 1984. Austria: Burgenland.
- 1538 TJ Poprawski (0131B). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 11 Jul 1984. Austria: Burgenland.
- 1539 TJ Poprawski (0132). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 11 Jul 1984. Austria: Burgenland.

- 1540 TJ Poprawski (0133A). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 11 Jul 1984. Austria: Burgenland.
- 1635 TJ Poprawski (0133B). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 27 Jun 1984. Austria: Burgenland.
- 1636 TJ Poprawski (0134). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 11 Jul 1984. Austria: Burgenland.
- 1637 TJ Poprawski (0135A). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 13 Jul 1984. Austria: Burgenland.
- 1638 TJ Poprawski (0135B). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 13 Jul 1984. Austria: Burgenland.
- 1640 TJ Poprawski (0137). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 13 Jul 1984. Austria: Burgenland.
- 1643 TJ Poprawski (0140). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 13 Jul 1984. Austria: Burgenland.
- 1648 TJ Poprawski (0144). Adult, *Lygus* sp. [Hemiptera: Miridae]. 22 Aug 1984. France: Charente.
- 1649 TJ Poprawski (0145). Adult, *Lygus* sp. [Hemiptera: Miridae]. 22 Aug 1984. France: Drôme.
- 1650 TJ Poprawski (0146). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. 22 Aug 1984. France: Saint-Denis du Pin, Seine-Saint-Denis.
- 1789 TJ Poprawski (0148A). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Saint-Laurent, Vosges.
- 1790 TJ Poprawski (0148B). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Saint-Laurent, Vosges.
- 1791 TJ Poprawski (0149). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Saint-Laurent, Vosges.
- 1792 TJ Poprawski (0150A). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Fiancey.
- 1793 TJ Poprawski (0150B). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Fiancey.
- 1794 TJ Poprawski (0150C). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Fiancey.
- 1795 TJ Poprawski (0151). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Marsanne, Drôme.
- 1796 TJ Poprawski (0152A). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Choisy-en-Brie, Haute-Savoie.
- 1797 TJ Poprawski (0152B). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Choisy-en-Brie, Haute-Savoie.
- 1798 TJ Poprawski (0152C). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Choisy-en-Brie, Haute-Savoie.
- 1799 TJ Poprawski (0152D). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Choisy-en-Brie, Haute-Savoie.
- 1800 TJ Poprawski (0154). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Septeuil, Yvelines.
- 1801 TJ Poprawski (0155). Adult, *Adelphocoris* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. France: Septeuil, Yvelines.
- 1802 TJ Poprawski (0156). Adult, *Lygus* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. Greece: Heronia.
- 1803 TJ Poprawski (0157). Adult, *Lygus* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. Greece: Heronia.
- 1804 TJ Poprawski (0158A). Adult, *Lygus* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. Spain: Bahabon de Esgueva.
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- 1808 TJ Poprawski (0159B). Adult, *Lygus* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. Spain: Bahabon de Esgueva.
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- 1810 TJ Poprawski (0161). Adult, *Lygus* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. Spain: Bahabon de Esgueva.
- 1812 TJ Poprawski (0163). Adult, *Lygus* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. Greece: Thessaloniki.
- 1813 TJ Poprawski (0164A). Adult, *Lygus* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. Spain: Bahabon de Esgueva.
- 1814 TJ Poprawski (0164B). Adult, *Lygus* sp. [Hemiptera: Miridae]. Acc'd 22 Jan 1985. Spain: Bahabon de Esgueva.
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- 1984 TJ Poprawski (0187). Adult, [Hemiptera: Pentatomidae]. Acc'd 25 Sep 1985. France: Drôme.
- 1988 TJ Poprawski (0175). Adult, *Nabis* sp. [Hemiptera: Nabidae]. Acc'd 25 Sep 1985. Austria: Burgenland.

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- 2322 TJ Poprawski (8646). Nymph, *Lygus* sp. [Hemiptera: Miridae] on alfalfa. 6 Nov 1986. France: Garancières, Yvelines.
- 2430 SV Krueger. *Blissus leucopterus* [Hemiptera: Lygaeidae]. Mar 1980. USA: Wakefield, Kansas.
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- 2462 TJ Poprawski (8707). Nymph, *Lygus* sp. [Hemiptera: Miridae]. 3 Jun 1987. France: Béhoust, Yvelines.
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- 4200 LA Lacey (94013) ← La Casa. Larva, *Haplothrips tritici* [Thysanoptera: Phlaeothripidae]. 28 Feb 1993. Spain: Murcia.
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- 6009 BL Parker ← V Gouli (SPT-R-145). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
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- 6014 BL Parker ← V Gouli (SPT-R-170). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6015 BL Parker ← V Gouli (SPT-R-171). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
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- 6022 BL Parker ← V Gouli (SPT-R-200). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6039 BL Parker ← V Gouli (SPT-R-148). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6040 BL Parker ← V Gouli (SPT-R-152). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6041 BL Parker ← V Gouli (SPT-R-153). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6042 BL Parker ← V Gouli (SPT-R-158). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
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- 6056 BL Parker (SPT-U-251). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1999. Uzbekistan: Site b, SW of Samarkand, Mirankul region.
- 6060 BL Parker (SPT-U-259). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1999. Uzbekistan: SW of Samarkand, Sazagan.
- 6065 BL Parker (SPT-U-267). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6066 BL Parker (SPT-U-268). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6067 BL Parker (SPT-U-269). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6069 BL Parker (SPT-U-272). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6070 BL Parker (SPT-U-273). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6072 BL Parker (SPT-U-291). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1999. Uzbekistan: Site b, SW of Samarkand, Mirankul region.
- 6073 BL Parker (SPT-U-292). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1999. Uzbekistan: SW of Samarkand, Sazagan.
- 6076 BL Parker (SPT-U-300). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1999. Uzbekistan: Site d, SW of Samarkand, Mirankul region.
- 6079 BL Parker (SPT-U-310). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6083 BL Parker (SPT-U-260). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1999. Uzbekistan: SW of Samarkand, Sazagan.
- 6086 BL Parker (SPT-2-309/2). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6087 BL Parker (SPT-2-312). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6088 BL Parker (SPT-2-315). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6089 BL Parker (SPT-2-318). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6090 BL Parker (SPT-2-319/2). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6091 BL Parker (SPT-2-321/1). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
- 6093 BL Parker (SPT-U-326). Adult, *Aelia* sp. [Hemiptera: Pentatomidae]. 16 Jan 1999. Uzbekistan: Site c, SW of Samarkand, Mirankul region.
- 6115 BL Parker (SPT-U-349). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1999. Uzbekistan: Site b, SW of Samarkand, Mirankul region.
- 6149 BL Parker (SPT-3-372). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 18 Feb 1999. Syria: Al Kseabiia.
- 6404 B Tunali (27). *Dolycorus* sp. [Hemiptera: Pentatomidae]. 4 Oct 1999. Turkey: Adiyaman.
- 6426 B Tunali (28). *Dolycorus* sp. [Hemiptera: Pentatomidae]. 4 Oct 1999. Turkey.
- 6660 MR McGuire (2-10). *Lygus hesperus* [Hemiptera: Miridae] on *Medicago sativa* L., alfalfa. 21 Nov 2000. USA: Scofield Avenue, 0.75 mile north of Merced on west side of road, Shafter, California.

- 6661 MR McGuire (5-43). *Lygus hesperus* [Hemiptera: Miridae] on *Medicago sativa* L., alfalfa. 21 Nov 2000. USA: NE corner of Scaroni and Burbank, Shafter, California.
- 6722 JM Sung (KEFC-6240). [Hemiptera: Pentatomidae]. Nov 2000. Republic of Korea: Mt. Hiryang, Jechon.
- 7147 C López Lastra. Adult, *Triatoma infestans* [Hemiptera: Reduviidae]. 13 Aug 2002. Argentina: Deán Funes, Córdoba.
- 7240 JM Sung (EFCC 1109). *Acanthosoma labiduroides* [Hemiptera: Pentatomidae]. 28 Jun 1997. Republic of Korea: Mt. Gyaeryong, Chungnam Province.
- 7246 JM Sung (EFCC 1929). *Acanthosoma labiduroides* [Hemiptera: Pentatomidae]. 4 Oct 1997. Republic of Korea: Samag Mt., Kangwon-do.
- 7273 JM Sung (EFCC 7270). *Acanthosoma labiduroides* [Hemiptera: Pentatomidae]. 8 Jul 2001. Nepal.
- 7984 [ARSEF 8638; CENARGEN CG 883] *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 29 Mar 2006. Brazil: Itiquira, Mato Grosso. **RESTRICTED ACCESS:** consult Curator.
- 8025 NV Meyling (KVL 03-72). *Liocoris tripustulatus* [Hemiptera: Miridae] from *Urtica dioica* L., stinging nettle habitat type. 25 Jun 2002. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8026 NV Meyling (KVL 03-81). *Stenodema laevigatum* [Hemiptera: Miridae] from unspecified grass *Poaceae* habitat type. 19 Sep 2002. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8027 NV Meyling (KVL 03-85). *Scolopostethus affinis* [Hemiptera: Lygaeidae] from *Urtica dioica* L., stinging nettle habitat type. 31 Jul 2002. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8028 NV Meyling (KVL 03-90). *Anthocoris nemorum* [Hemiptera: Anthocoridae] from *Urtica dioica* L., stinging nettle habitat type. 25 Jun 2002. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8029 NV Meyling (KVL 03-94). *Notostira elongata* [Hemiptera: Miridae] from unspecified grass *Poaceae* habitat type. 19 Sep 2002. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8030 NV Meyling (KVL 03-118). *Notostira elongata* [Hemiptera: Miridae] from unspecified grass *Poaceae* habitat type. 19 Sep 2002. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8036 NV Meyling (KVL 03-148). *Leptopterna dolabrata* [Hemiptera: Miridae] from unspecified grass *Poaceae* habitat type. 10 Jul 2003. Denmark: Bakkegården, Copenhagen, Tåstrup, Zealand. 55°40' N, 12°18' E.
- 8317 N Hudson (NI8). *Lygus lineolaris* [Hemiptera: Miridae] on pigweed. 29 Jul 2002. USA: Washington County, Mississippi. **RESTRICTED ACCESS:** consult Curator.
- 8637 [CENARGEN CG 882] *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 18 Sep 2007. Brazil: Itiquira, Mato Grosso. **RESTRICTED ACCESS:** consult Curator.
- 8638 [ARSEF 7984; CENARGEN CG 883] *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 18 Sep 2007. Brazil: Itiquira, Mato Grosso. **RESTRICTED ACCESS:** consult Curator.
- 8706 RG Hollingsworth (H3). [Hemiptera: Lygaeidae]. 9 Jan 2007. USA: Kalopa Native Forest State Park, Kalopa, Hawaii.
- 8889 TA Ugine (TPB3) or (NI8). *Lygus lineolaris* [Hemiptera: Miridae] on *Conyza canadensis* (L.) Cronquist, Canadian horseweed. Jul 2002. USA: Washington County, Mississippi.
- 8932 [ERL 499] S Gouli and BL Parker (SP-403). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2000. Kyrgyz Republic.
- 9587 [ERL 1744] S Gouli (CA-603/Thr.-09) and V Gouli. *Frankliniella occidentalis* [Thysanoptera: Thripidae]. 2009. USA: California. Re-isolation of ARSEF 7060 (CA-603) from infected western flower thrips.
- 9588 [ERL 1745] S Gouli (GHA/WFT.09) and V Gouli. *Frankliniella occidentalis* [Thysanoptera: Thripidae]. 2009.
- 9927 [ERL 1771] S Gouli and V Gouli (Thr.-09-3). [Thysanoptera: Thripidae]. 2010. USA: Vermont.
- 10138 [ERL 1798] S Gouli (Thr.-10-1) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Debry, Vermont.
- 10139 [ERL 1799] S Gouli and V Gouli (Thr.-10-2). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Orford, New Hampshire.
- 10140 [ERL 1800] S Gouli (Thr.-10-3) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Rupert, Vermont.
- 10143 [ERL 1803] S Gouli and V Gouli (Thr.-10-6). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Westfield, Vermont.
- 10144 [ERL 1804] S Gouli (Thr.-10-7) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.
- 10145 [ERL 1805] S Gouli and V Gouli (Thr.-10-8). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10147 [ERL 1807] S Gouli and V Gouli (Thr.-10-10). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Debry, Vermont.
- 10148 [ERL 1808] S Gouli (Thr.-10-11) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.
- 10348 [ERL 189] CJ Lomer (SP-127). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 1998. Turkey.
- 10349 [ERL 190] CJ Lomer (SP-128). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 1998. Turkey.

- 10351 [ERL 487] BL Parker (SP-379) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 1998. Republic of Kazakhstan.
- 10352 [ERL 533] BL Parker (SP-464) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2000. Kyrgyz Republic.
- 10353 [ERL 536] BL Parker (SP-482) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10354 [ERL 537] BL Parker and M Skinner (SP-483). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10355 [ERL 538] BL Parker (SP-493) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10356 [ERL 539] BL Parker and M Skinner (SP-500). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10357 [ERL 543] BL Parker (SP-504) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10358 [ERL 553] BL Parker and M Skinner (SP-554). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10359 [ERL 557] BL Parker (SP-566) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10360 [ERL 558] BL Parker and M Skinner (SP-567). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10361 [ERL 563] BL Parker (SP-582) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10362 [ERL 566] BL Parker and M Skinner (SP-585). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.

Beauveria bassiana(?) (Balsamo-Crivelli) Vuillemin
[Sordariomycetes: Hypocreales]
Cordycipitaceae

- 5684 BL Parker (SPT-084). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 19 Jan 1998. Turkey: Belen, Gaziantep.

Beauveria brongniartii (Saccardo) Petch
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Major synonym: *Beauveria tenella* (Saccardo) MacLeod.

- 6023 BL Parker ← V Gouli (SPT-R-201). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.

Beauveria pseudobassiana (sp. nov.,unpubl.)
[Sordariomycetes: Hypocreales]

Cordycipitaceae. Defined primarily by genotypic characters

- 3216 LK Rieske. *Thrips calcaratus* [Thysanoptera: Thripidae]. Summer 1991. USA: Rusk County, Wisconsin. Identification verified genomically.

Cladosporium cladosporioides (Fresenius) de Vries
[Dothideomycetes: Capnodiales]
Mycosphaerellaceae

- 3375 [Puerto Rico 04-91] F Gallardo ← G Mejía. Adult, nymphs & pupa, *Thrips palmi* [Thysanoptera: Thripidae] on eggplant, *Solanum melongena*. Jun 1991. USA: Río Piedras, Puerto Rico.

Conidiobolus coronatus (Costantin) Batko
[Entomophthoromycotina: Entomophthorales]
Ancylistaceae. Major synonyms: *Entomophthora coronata* (Costantin) Kevorkian, *Conidiobolus villosus* Martin.

Caution: This species is known to cause human mycoses that are primarily tropical in occurrence and confined to the nasal passages and adjacent superficial areas. Avoid inhalation of conidia and do not handle cultures without gloves if unhealed cuts or abrasions are present. This species has low pathogenicity for mammals and should be relatively safe if handled with good microbiological technique.

- 3222 LS Osborne. *Frankliniella occidentalis* [Thysanoptera: Thripidae]. Rec'd 14 Mar 1991. USA: greenhouse, IFAS, Univ. of Florida, Apopka, Florida.

- 6512 S Gouli and V Gouli (GA-361). [Thysanoptera: Thripidae] on *Tagetes erecta* L., marigold. 3 Oct 1999. USA: Burlington, Vermont.

- 9914 [ERL 1747] S Gouli and V Gouli (Thr.-09-2). [Thysanoptera: Thripidae]. 2010. USA: Vermont.

***Cordyceps* sp.**

[Sordariomycetes: Hypocreales]

Family cannot be determined since this genus in its old, broad sense is now segregated among several genera in three families

- 4846 JM Sung (C-208). Adult, [Hemiptera: Pentatomidae]. 9 Jul 1993. Republic of Korea: Yongmoon Mt., Gyeonggi Province.

***Cylindrocarpon* sp.**

[Sordariomycetes: Hypocreales]

Nectriaceae

- 5758 BL Parker (SPT 035). *Aelia* sp. [Hemiptera: Pentatomidae]. 16 Jan 1998. Turkey: Graek, Kalayak, Elbistan, Kahraman Maras.

Fungal Cultures

Entomophthora thripidum *Fusarium* sp.

Entomophthora thripidum Samson, Ramakers & Oswald
[Entomophthoromycotina: Entomophthorales]
Entomophthoraceae

- 5868 A Grundschober (ETH 601). *Thrips tabaci* [Thysanoptera: Thripidae]. 21 Apr 1998. Germany: laboratory colony, BBA, Institut für Pflanzenschutz im Gartenbau, Braunschweig, Braunschweig.
- 6517 F Freimoser (ETH 602). *Thrips tabaci* [Thysanoptera: Thripidae]. 21 Apr 1998. Germany: Laboratory colony, BBA, Institut für Pflanzenschutz im Gartenbau, Braunschweig, Braunschweig.
- 6518 F Freimoser (ETH 603). *Thrips tabaci* [Thysanoptera: Thripidae]. 21 Apr 1998. Germany: Laboratory colony, BBA, Institut für Pflanzenschutz im Gartenbau, Braunschweig, Braunschweig.
- 6519 F Freimoser (ETH 604). *Thrips tabaci* [Thysanoptera: Thripidae]. 21 Apr 1998. Germany: Laboratory colony, BBA, Institut für Pflanzenschutz im Gartenbau, Braunschweig, Braunschweig.
- 6520 F Freimoser (ETH 605). *Thrips tabaci* [Thysanoptera: Thripidae]. 21 Apr 1998. Germany: Laboratory colony, BBA, Institut für Pflanzenschutz im Gartenbau, Braunschweig, Braunschweig.
- 6521 F Freimoser (ETH 607). *Thrips tabaci* [Thysanoptera: Thripidae]. 21 Apr 1998. Germany: Laboratory colony, BBA, Institut für Pflanzenschutz im Gartenbau, Braunschweig, Braunschweig. Re-isolate of ETH 603 [=ARSEF 6518] after passage through *Thrips tabaci*.
- 6522 F Freimoser (ETH 608). *Thrips tabaci* [Thysanoptera: Thripidae]. 21 Apr 1998. Germany: Laboratory colony, BBA, Institut für Pflanzenschutz im Gartenbau, Braunschweig, Braunschweig. Re-isolate of ETH 603 [=ARSEF 6518] after passage through *Thrips tabaci*.
- 6525 F Freimoser (ETH 606). *Thrips tabaci* [Thysanoptera: Thripidae]. 21 Apr 1998. Germany: Laboratory colony, BBA, Institut für Pflanzenschutz im Gartenbau, Braunschweig, Braunschweig.

***Evlachovaea* sp.**
[Sordariomycetes: Hypocreales]
Cordycipitaceae

- 6635 SB Alves (ESALQ 1225). *Leptopharsa heveae* [Hemiptera: Tingidae]. 28 Sep 1998. Brazil: Itiquira, Mato Grosso.
- 6638 SB Alves (ESALQ 1228). *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 25 Sep 2000. Brazil: Manaus, Amazonas.
- 6639 SB Alves (ESALQ 1229). *Leptopharsa heveae* [Hemiptera: Tingidae]. 29 Sep 1998. Brazil: Itiquira, Mato Grosso.
- 6640 SB Alves (ESALQ 1230). *Leptopharsa heveae* [Hemiptera: Tingidae]. 29 Sep 1998. Brazil: Itiquira, Mato Grosso.

6641 SB Alves (ESALQ 1235). *Leptopharsa heveae* [Hemiptera: Tingidae]. 11 Nov 1998. Brazil: Brasilia, Distrito Federal.

Furia virescens (Thaxter) Humber
[Entomophthoromycotina: Entomophthorales]
Entomophthoraceae

- 394 S Keller (24). *Notostira elongata* [Hemiptera: Miridae]. 9 Oct 1975. Switzerland.

***Fusarium* sp.**
[Sordariomycetes: Hypocreales]
Nectriaceae

- 1307 [NRRL 25081] TJ Poprawski (043). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 23 May 1983. Italy: Acquapendente, Lazio.
- 1641 [NRRL 25084] TJ Poprawski (0138). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 13 Jul 1984. Austria: Burgenland.
- 5680 BL Parker (SPT-042). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1998. Turkey: Graek, Konor, Elbistan, Kahraman Maras.
- 5682 BL Parker (SPT-078). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 25 Jan 1998. Syria: Rmilan, Hassakeh, Azaz, Halab.
- 5755 BL Parker (SPT 026/1). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 21 Jan 1998. Syria: Al Kilabia.
- 5757 BL Parker (SPT 029/2). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 21 Jan 1998. Syria: Meshmegan.
- 6394 B Tunali (11). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 30 Jun 1999. Turkey: Kinkkale, Ankara.
- 6395 B Tunali (12). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2 Sep 1999. Turkey: Aksaray, Nigde.
- 6396 B Tunali (16). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 30 Jun 1999. Turkey: Yozgat.
- 6397 B Tunali (18). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 5 Jul 1999. Turkey: Kinkkale, Ankara.
- 6398 B Tunali (19). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 8 Sep 1999. Turkey: Aksaray, Nigde.
- 6400 B Tunali (22). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 27 Aug 1999. Turkey: Aksaray, Nigde.
- 6401 [NRRL 52722] B Tunali (23). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 23 Jun 1999. Turkey: Bogazliyan, Yozgat.
- 6402 [NRRL 52723] B Tunali (24). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 23 Jun 1999. Turkey: Yozgat.
- 6403 [NRRL 52721] B Tunali (25). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 29 Jun 1999. Turkey: Beynam, Ankara.
- 6409 [NRRL 52716] B Tunali (36). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 5 Jul 1999. Turkey: Aksaray, Nigde.
- 6410 [NRRL 52720] B Tunali (38). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 5 Jul 1999. Turkey: Beynam, Ankara.

- 6411 [NRRL 52718] B Tunali (34). *Dolycorus* sp. [Hemiptera: Pentatomidae]. 8 Oct 1999. Turkey: Kollubaba.
- 6425 [NRRL 52719] B Tunali (17). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 5 Jul 1999. Turkey: Kinkkale, Ankara.
- 6428 [NRRL 52714] B Tunali (21). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 7 Aug 1999. Turkey: Kirsehir.
- 6429 B Tunali (39). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 5 Jul 1999. Turkey: Aksaray, Nigde.
- 7381 G Mikunthan (GM/15). Larva, *Scirtothrips dorsalis* [Thysanoptera: Thripidae] on *Capsicum annuum* L., chili pepper. 9 Sep 2003. India: University of Agricultural Sciences, Shimoga, Karnataka.
- 7473 [CEP 134; NRRL 52748] C López Lastra. *Triatoma infestans* [Hemiptera: Reduviidae]. 6 Mar 2004. Argentina: La Rioja.
- 9937 [ERL 1782] S Gouli (Thr.-09-14) and V Gouli. [Thysanoptera: Thripidae]. 2010. USA: Vermont.
- 10311 [ERL 1956] S Gouli and V Gouli (SB-10-3). *Halyomorpha halys* [Hemiptera: Pentatomidae]. Oct 2010. USA: New Jersey.
- 10312 [ERL 1957] S Gouli (SB-10-4) and V Gouli. *Halyomorpha halys* [Hemiptera: Pentatomidae]. Sep 2010. USA: New Jersey.
- 10313 [ERL 1958] S Gouli and V Gouli (SB-10-5). *Halyomorpha halys* [Hemiptera: Pentatomidae]. Oct 2010. USA: New Jersey.
- 10388 [ERL 1961] S Gouli (SB-10-8) and V Gouli. *Halyomorpha halys* [Hemiptera: Pentatomidae]. 2010. USA: New Jersey.
- 10389 [ERL 1962] S Gouli and V Gouli (SB-10-9). *Halyomorpha halys* [Hemiptera: Pentatomidae]. 2010. USA: New Jersey.
- 10390 [ERL 1963] S Gouli (SB-10-10) and V Gouli. *Halyomorpha halys* [Hemiptera: Pentatomidae]. 2010. USA: New Jersey.
- 10391 [ERL 1964] S Gouli and V Gouli (SB-10-11). *Halyomorpha halys* [Hemiptera: Pentatomidae]. 2010. USA: New Jersey.

Fusarium subglutinans (Wollenweber & Reinking)

Nelson, Tousson & Marasas
[Sordariomycetes: Hypocreales]
Nectriaceae

- 2143 [NRRL 25032] H David (8). *Pyrilla perpusilla* [Hemiptera: Lophopidae]. Acc'd 2 Apr 1986. India: Coimbatore, Tamil Nadu.
- 2144 [NRRL 25140] H David (9). *Pyrilla perpusilla* [Hemiptera: Lophopidae]. Acc'd 2 Apr 1986. India: Coimbatore, Tamil Nadu.

***Hirsutella* sp.**

[Sordariomycetes: Hypocreales]

Ophiocordycipitaceae. Strains listed here have not been satisfactorily identified to species largely due to the lack of adequate taxonomic information for the majority of species in this large and important genus. *Hirsutella* is a known or possible synanamorph for many other hyphomycete entomopathogens with teleomorphs classified in the Clavicipitaceae (Pyrenomycetes: Clavicipitaceae).

- 2208 MC Rombach (030786-2) ← AT Barrion. *Cyrtorhinus lividipennis* [Hemiptera: Miridae] on rice leaf. 1 Jul 1986. Philippines: nr. Bo. Looc, Villanueva, Misamis Oriental.
- 2209 MC Rombach (070786-5). *Cyrtorhinus lividipennis* [Hemiptera: Miridae] on rice leaf. 7 Jul 1986. Philippines: nr. Bo. Looc, Villanueva, Misamis Oriental.
- 2939 M Skinner (Ch, BG and 60(5WM)) ← JF Yuill. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. Sep 1989. USA: Buel's Grove, Chittenden County, Vermont.
- 2940 M Skinner (Ch, BG and 61(8WM)) ← JF Yuill. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. Sep 1989. USA: Buel's Grove, Chittenden County, Vermont.
- 3266 M Brownbridge (P). Brown larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 12 Dec 1990. USA: Hamden, Connecticut.
- 3318 M Brownbridge (Perry 1). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. Rec'd 19 Mar 1991. USA: Perry's sugar maple stand, Orange County, Vermont.
- 3546 M Brownbridge (R-4). Larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 20 Nov 1991. USA: Laggis' sugar maple stand, Caledonia County, Vermont.
- 3548 M Brownbridge (R-9). Larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 20 Nov 1991. USA: Perry's sugar maple stand, Orange County, Vermont.
- 3553 M Brownbridge (R-15). Yellow mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 26 Nov 1991. USA: Rowe's sugar maple stand, Caledonia County, Vermont.
- 4193 LA Lacey (94023). *Thrips palmi* [Thysanoptera: Thripidae]. Rec'd 12 May 1994. Trinidad and Tobago.
- 4513 [IIBC I88-370] HC Evans (I88-370). *Liothrips mikaniae* [Thysanoptera: Phlaeothripidae] Mikania micrantha. Feb 1988. Trinidad.
- 4514 [IIBC I88-399] HC Evans (I88-399). *Liothrips mikaniae* [Thysanoptera: Phlaeothripidae] Mikania micrantha. Jul 1988. Trinidad.

***Isaria* sp.**

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 10162 [ERL 1822] S Gouli (Thr.-10-24) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Sharon Springs, New York.

- 10231 [ERL 1897] S Gouli (Thr.-10-105) and V Gouli. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10232 [ERL 1898] S Gouli (Thr.-10-106) and D Tobi. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Rupert, Vermont.
- 10233 [ERL 1899] S Gouli (Thr.-10-107) and V Gouli. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Rupert, Vermont.
- 10363 [ERL 390] BL Parker and M Skinner (SP-473). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10364 [ERL 391] BL Parker (SP-475) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10365 [ERL 392] BL Parker and M Skinner (SP-484). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10366 [ERL 393] BL Parker (SP-486) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10367 [ERL 394] BL Parker and M Skinner (SP-487). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10368 [ERL 395] BL Parker (SP-509) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10369 [ERL 396] BL Parker and M Skinner (SP-514). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10370 [ERL 397] BL Parker (SP-515) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10371 [ERL 398] BL Parker (SP-516) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10372 [ERL 399] BL Parker and M Skinner (SP-517). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10373 [ERL 400] BL Parker (SP-518) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10374 [ERL 401] BL Parker and M Skinner (SP-520). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10375 [ERL 402] BL Parker (SP-569) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10376 [ERL 403] BL Parker and M Skinner (SP-570). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10377 [ERL 404] BL Parker (SP-587) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10378 [ERL 527] BL Parker (SP-456) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2000. Republic of Kazakhstan.
- 10379 [ERL 540] BL Parker (SP-501) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10380 [ERL 548] BL Parker and M Skinner (SP-523b). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10381 [ERL 549] BL Parker (SP-531) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10382 [ERL 554] BL Parker and M Skinner (SP-555). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10383 [ERL 556] BL Parker (SP-564) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10384 [ERL 561] BL Parker and M Skinner (SP-572). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- 10385 [ERL 571] BL Parker (SP-588) and M Skinner. *Eurygaster* sp. [Hemiptera: Scutelleridae]. 2002. Iran.
- Isaria farinosa* (Holmsk.) Fries**
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Major synonym: *Paecilomyces farinosus* (Holmsk. ex Gray) Brown & Smith. Reclassified during a phylogenetically necessary reclassification of *Paecilomyces* Section *Isarioidea*. Teleomorph: *Cordyceps memorabilis* Ces.
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- 3564 M Brownbridge (R-38). Mummified larva, *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 4 Dec 1991. USA: Ralph's sugar maple stand, Warren, Vermont.
- 5675 BL Parker (SPT-039). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 19 Jan 1998. Turkey: Belen, Gaziantep.
- 5676 BL Parker (SPT-050). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 17 Jan 1998. Turkey: Karabyykly, Narli, Kahraman Maras.
- 5679 BL Parker (SPT-036). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1998. Turkey: Graek, Kalaycyk, Elbistan, Kahraman Maras.
- 6012 BL Parker ← V Gouli (SPT-R-160). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6017 BL Parker ← V Gouli (SPT-R-175). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6020 BL Parker ← V Gouli (SPT-R-185(b)). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.

- 6044 BL Parker ← V Gouli (SPT-R-172). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6097 BL Parker (SPT-U-341). Adult, *Aelia* sp. [Hemiptera: Pentatomidae]. 16 Jan 1999. Uzbekistan: SW of Samarkand, Sazagan.
- 6098 BL Parker (SPT-U-343). Adult, *Aelia* sp. [Hemiptera: Pentatomidae]. 16 Jan 1999. Uzbekistan: Site a, SW of Samarkand, Mirankul region.
- 6288 S Farrokh (PPDRI 3). *Eurygaster integriceps* [Hemiptera: Scutelleridae]. Dec 1998. Iran: Isfahan, Esfahan.
- 6481 BL Parker (SPT-KZ-400). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae] overwintering in soil. 6 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.530' E 076°36.526'. **RESTRICTED ACCESS:**
contact Curator
- 6490 BL Parker (SPT-KZ-420). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae] overwintering in soil. 4 Feb 2000. Kazakhstan: GPS Coordinates N 43°22.366' E 077°20.486'. **RESTRICTED ACCESS:**
contact Curator
- 6493 BL Parker (SPT-KZ-428). Adult, *Aelia* sp. [Hemiptera: Pentatomidae] overwintering in soil. 6 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.530' E 076°36.526'. **RESTRICTED ACCESS:**
contact Curator
- 6495 BL Parker (SPT-KZ-432). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae] overwintering in soil. 6 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.530' E 076°36.526'. **RESTRICTED ACCESS:**
contact Curator
- 6496 BL Parker (SPT-KZ-440). Adult, [Hemiptera: Lygaeidae] overwintering in soil. 4 Feb 2000. Kazakhstan: GPS Coordinates N 43°22.366' E 077°20.486'. **RESTRICTED ACCESS:**
contact Curator
- 6497 BL Parker (SPT-KZ-443). Adult, *Aelia* sp. [Hemiptera: Pentatomidae] overwintering in soil. 6 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.530' E 076°36.526'. **RESTRICTED ACCESS:**
contact Curator
- 6607 JL Hatting (Sample B). [Hemiptera: Miridae] on *Aspalathus contaminatus*, Rooibos tea. . 4 Aug 1999. South Africa: Site grid reference S 31° 47' 37.5" E 8° 41' 02.2", Clanwilliam, Cape Province.
- 10155 [ERL 1815] S Gouli and V Gouli (Thr.-10-17). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.
- 10157 [ERL 1817] S Gouli and V Gouli (Thr.-10-19). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Richford, Vermont.

- 10158 [ERL 1818] S Gouli (Thr.-10-20) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.

- 10159 [ERL 1819] S Gouli and V Gouli (Thr.-10-21). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.

- 10161 [ERL 1821] S Gouli and V Gouli (Thr.-10-23). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.

Isaria fumosorosea Wize

[Sordariomycetes: Hypocreales]

Cordycipitaceae. Major synonym: *Paecilomyces fumosoroseus* (Wize) Brown & Smith. Reclassified during a phylogenetically necessary reclassification of *Paecilomyces* Section *Isarioidea*.

- 1530 TJ Poprawski (0127A(bis)). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 5 Jul 1984. Italy: Orvieto, Umbria.

- 1532 TJ Poprawski (0127B(bis)). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 5 Jul 1984. Italy: Orvieto, Umbria.

- 3429 K Ostrovska (51). [Hemiptera: Pentatomidae]. 25 Sep 1991. Costa Rica: Carrara.

Lecanicillium sp.

[Sordariomycetes: Hypocreales]

Cordycipitaceae

- 3253 M Brownbridge (B). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 28 Nov 1990. USA: Allegheny Forest, Elk County, Pennsylvania.

- 3254 M Brownbridge (C). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 28 Nov 1990. USA: Allegheny Forest, Elk County, Pennsylvania.

- 3255 M Brownbridge (D). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 28 Nov 1990. USA: Allegheny Forest, Elk County, Pennsylvania.

- 3259 M Brownbridge (I). Brown larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 12 Dec 1990. USA: Krug, Massachusetts.

- 3260 M Brownbridge (J). Brown larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 12 Dec 1990. USA: Krug, Massachusetts.

- 8639 [CENARGEN CG 826] *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 18 Sep 2007. Brazil: Itiquira, Mato Grosso. **RESTRICTED ACCESS:** consult Curator.

- 9930 [ERL 1774] S Gouli (Thr.-09-6) and V Gouli. [Thysanoptera: Thripidae]. 2010. USA: Vermont.

- 9931 [ERL 1775] S Gouli and V Gouli (Thr.-09-7). [Thysanoptera: Thripidae]. 2010. USA: Vermont.

- 9935 [ERL 1779] S Gouli and V Gouli (Thr.-09-11). [Thysanoptera: Thripidae]. 2010. USA: Vermont.

- 9936 [ERL 1780] S Gouli (Thr.-09-12) and V Gouli. [Thysanoptera: Thripidae]. 2010. USA: Vermont.

- 10154 [ERL 1814] S Gouli (Thr.-10-16) and V Gouli. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Altona, New York.
- 10187 [ERL 1865] S Gouli (Thr.-10-73) and V Gouli. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10188 [ERL 1866] S Gouli and V Gouli (Thr.-10-74). *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10189 [ERL 1867] S Gouli (Thr.-10-75) and V Gouli. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10190 [ERL 1868] S Gouli and V Gouli (Thr.-10-76). *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10192 [ERL 1870] S Gouli and V Gouli (Thr.-10-78). *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Westfield, Vermont.
- 10193 [ERL 1871] S Gouli (Thr.-10-79) and V Gouli. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.
- 10195 [ERL 1873] S Gouli (Thr.-10-81) and V Gouli. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.
- 10196 [ERL 1874] S Gouli and V Gouli (Thr.-10-82). *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.
- 10197 [ERL 1875] S Gouli (Thr.-10-83) and V Gouli. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Richford, Vermont.
- 10198 [ERL 1876] S Gouli and V Gouli (Thr.-10-84). *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Richford, Vermont.
- 10199 [ERL 1877] S Gouli (Thr.-10-85) and V Gouli. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Richford, Vermont.
- 10200 [ERL 1878] S Gouli and V Gouli (Thr.-10-86). *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Richford, Vermont.
- 10201 [ERL 1879] S Gouli (Thr.-10-87) and V Gouli. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.
- 10202 [ERL 1880] S Gouli and V Gouli (Thr.-10-88). *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.
- 10203 [ERL 1881] S Gouli (Thr.-10-89) and V Gouli. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.
- 10206 [ERL 1884] S Gouli and V Gouli (Thr.-10-92). *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Orford, New Hampshire.
- 10207 [ERL 1885] S Gouli (Thr.-10-93) and V Gouli. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Orford, New Hampshire.
- 10208 [ERL 1886] S Gouli (Thr.-10-94) and V Gouli. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10209 [ERL 1887] S Gouli and V Gouli (Thr.-10-95). *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10210 [ERL 1888] S Gouli (Thr.-10-96) and V Gouli. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10211 [ERL 1889] S Gouli and V Gouli (Thr.-10-97). *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10212 [ERL 1890] S Gouli (Thr.-10-98) and V Gouli. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10213 [ERL 1891] S Gouli and V Gouli (Thr.-10-99). *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10214 [ERL 1892] S Gouli (Thr.-10-100) and V Gouli. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Rupert, Vermont.
- 10287 [ERL 1932] S Gouli (Thr.-10-138) and V Gouli. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10288 [ERL 1933] S Gouli (Thr.-10-139) and D Tobi. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10289 [ERL 1934] S Gouli and V Gouli (Thr.-10-140). *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10290 [ERL 1935] S Gouli (Thr.-10-141) and V Gouli. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10291 [ERL 1936] S Gouli (Thr.-10-142) and D Tobi. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.
- 10294 [ERL 1939] S Gouli (Thr.-10-145) and D Tobi. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.
- 10295 [ERL 1940] S Gouli and V Gouli (Thr.-10-146). *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.
- 10296 [ERL 1941] S Gouli (Thr.-10-147) and V Gouli. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.
- 10297 [ERL 1942] S Gouli (Thr.-10-148) and D Tobi. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.
- 10298 [ERL 1943] S Gouli and V Gouli (Thr.-10-149). *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.
- 10299 [ERL 1944] S Gouli (Thr.-10-150) and V Gouli. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.

- 10300 [ERL 1945] S Gouli (Thr.-10-151) and D Tobi. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.
- 10301 [ERL 1946] S Gouli and V Gouli (Thr.-10-152). *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.
- 10302 [ERL 1947] S Gouli (Thr.-10-153) and V Gouli. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Orford, New Hampshire.
- 10303 [ERL 1948] S Gouli (Thr.-10-154) and D Tobi. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Orford, New Hampshire.
- 10304 [ERL 1949] S Gouli and V Gouli (Thr.-10-155). *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Orford, New Hampshire.
- 10305 [ERL 1950] S Gouli (Thr.-10-156) and V Gouli. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Orford, New Hampshire.
- 10306 [ERL 1951] S Gouli (Thr.-10-157) and D Tobi. *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Orford, New Hampshire.

Lecanicillium aphanocladii(?) Zare & W Gams
[Sordariomycetes: Hypocreales]
Cordycipitaceae

- 7985 [ARSEF 8640; CENARGEN CG 422] *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 29 Mar 2006. Brazil: Dom Aquino, Mato Grosso. **RE-STRICITED ACCESS:** consult Curator.
- 7986 *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 29 Mar 2006. Brazil: Manaus, Amazonas. **RE-STRICITED ACCESS:** consult Curator.

Lecanicillium fusisporum(?) (W Gams) Zare & W Gams
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Synonym: *Verticillium fusisporum* W. Gams

- 10184 [ERL 1863] S Gouli and V Gouli (Thr.-10-71). *Tae-niothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Orford, New Hampshire.

Lecanicillium lecanii (Zimmermann) Zare & W Gams
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Segregate species in *Lecanicillium lecanii* species complex; formerly classified as *Verticillium lecanii* (Zimmermann) Viégas. Teleomorph: *Cordyceps confragosa* (Mains) GH Sung, JM Sung, Hywel-Jones & Spatafora [basionym: *Torrubia confragosa* Mains]

- 3683 AD Ali and M Brownbridge (F1.2) ← BL Parker and M Skinner. *Frankliniella occidentalis* [Thysanoptera: Thripidae] on greenhouse-grown cucumber. Mar 1992. France: CTIFL Centre de Balandran, Bellegarde, Gard.

- 3688 M Brownbridge (F6) ← BL Parker and M Skinner. *Frankliniella occidentalis* [Thysanoptera: Thripidae] on greenhouse-grown cucumber. Mar 1992. France: CTIFL Centre de Balandran, Bellegarde, Gard.

Lecanicillium lecanii(?) (Zimmermann) Zare & Gams
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Segregate species in *Lecanicillium lecanii* species complex; formerly classified as *Verticillium lecanii* (Zimmermann) Viégas.

- 3689 M Brownbridge (F7) ← BL Parker and M Skinner. *Frankliniella occidentalis* [Thysanoptera: Thripidae] on greenhouse-grown cucumber. Mar 1992. France: CTIFL Centre de Balandran, Bellegarde, Gard.
- 5580 T Steenberg (TT4). *Thrips tabaci* [Thysanoptera: Thripidae]. Rec'd 17 Nov 1997. Denmark.

Lecanicillium longisporum (Petch) Zare & W Gams
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Segregate species in *Lecanicillium lecanii* species complex; formerly classified as *Verticillium lecanii* (Zimmermann) Viégas

- 3701 LA Lacey (059) ← BL Parker. Adult, [Thysanoptera: Thripidae]. 26 Mar 1992. France: Bellegarde, Gard.

Lecanicillium muscarium (Petch) Zare & W Gams
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Segregate species in *Lecanicillium lecanii* species complex; formerly classified as *Verticillium lecanii* (Zimmermann) Viégas

- 2923 MS Goettel. [Thysanoptera: Thripidae]. Rec'd 14 Dec 1989. Canada.
- 3684 M Brownbridge (F2.3) ← BL Parker and M Skinner. *Frankliniella occidentalis* [Thysanoptera: Thripidae] on greenhouse-grown cucumber. Mar 1992. France: CTIFL Centre de Balandran, Bellegarde, Gard.
- 3685 M Brownbridge (F3.1) ← BL Parker and M Skinner. *Frankliniella occidentalis* [Thysanoptera: Thripidae] on greenhouse-grown cucumber. Mar 1992. France: CTIFL Centre de Balandran, Bellegarde, Gard.

- 3686 M Brownbridge (F4) ← BL Parker and M Skinner. *Frankliniella occidentalis* [Thysanoptera: Thripidae] on greenhouse-grown cucumber. Mar 1992. France: CTIFL Centre de Balandran, Bellegarde, Gard.

- 3690 M Brownbridge (F9) ← BL Parker and M Skinner. *Frankliniella occidentalis* [Thysanoptera: Thripidae] on greenhouse-grown cucumber. Mar 1992. France: CTIFL Centre de Balandran, Bellegarde, Gard.

- 3691 M Brownbridge (F10) ← BL Parker and M Skinner. *Frankliniella occidentalis* [Thysanoptera: Thripidae] on greenhouse-grown cucumber. Mar 1992. France: CTIFL Centre de Balandran, Bellegarde, Gard.

- 6118 BL Parker (SPT-2-311). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabia.

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Lecanicillium muscarium *Mariannaea* sp.

- 10178 [ERL 1857] S Gouli and V Gouli (Thr.-10-65). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Orford, New Hampshire.

Lecanicillium muscarium(?) (Petch) Zare & Gams
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Segregate species in *Lecanicillium lecanii* species complex; formerly classified as *Verticillium lecanii* (Zimmermann) Viégas.

- 3687 M Brownbridge (F5) ← BL Parker and M Skinner. *Frankliniella occidentalis* [Thysanoptera: Thripidae] on greenhouse-grown cucumber. Mar 1992. France: CTIFL Centre de Balandran, Bellegarde, Gard.

Lecanicillium psalliotae (Treschow) Zare & W Gams
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Major synonym: *Verticillium psalliotae* Treschow

- 5666 BL Parker (SPT-005). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 17 Jan 1998. Turkey: Karabyykly, Narli, Kahraman Maras.
- 5681 BL Parker (SPT-077). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 25 Jan 1998. Syria: Rmilan, Hassakeh, Azaz, Halab.
- 5683 BL Parker (SPT-079). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 25 Jan 1998. Syria: Rmilan, Hassakeh, Azaz, Halab.
- 5763 BL Parker (SPT 051). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Jan 1998. Syria: Rmilan, Hassakeh, Azaz, Halab.
- 5835 BL Parker (SPT 052). *Eurygaster* sp. [Hemiptera: Scutelleridae]. 25 Jan 1998. Syria: Rmilan, Hassakeh, Azaz, Halab.
- 6071 BL Parker (SPT-U-285). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 24 Jan 1999. Syria: Al Kseabiaa.
- 10170 [ERL 1842] S Gouli (Thr.-10-50) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Altona, New York.
- 10175 [ERL 1854] S Gouli (Thr.-10-62) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10176 [ERL 1855] S Gouli and V Gouli (Thr.-10-63). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10177 [ERL 1856] S Gouli (Thr.-10-64) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Langdon, New Hampshire.
- 10180 [ERL 1859] S Gouli and V Gouli (Thr.-10-67). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Richford, Vermont.
- 10181 [ERL 1860] S Gouli (Thr.-10-68) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.

- 10182 [ERL 1861] S Gouli and V Gouli (Thr.-10-69). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.

Lecanicillium psalliotae(?) (Treschow) Zare & W Gams
[Sordariomycetes: Hypocreales]
Cordycipitaceae. Synonym: *Verticillium psalliotae* Treschow

- 10183 [ERL 1862] S Gouli (Thr.-10-70) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Randolph, Vermont.

Mariannaea sp.

[Sordariomycetes: Hypocreales]
Cordycipitaceae; correct generic assignment remaining to be determined.

- 2930 [IMI 331276] M Skinner (PT-11). Larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae] from soil. Rec'd 10 Jan 1990. USA: sugar maple stand, Randolph, Vermont.
- 3252 M Brownbridge (A). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 28 Nov 1990. USA: Allegheny Forest, Elk County, Pennsylvania.
- 3257 M Brownbridge (F). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 22 Feb 1991. USA: Agway Research Farm, Tully, New York.
- 3258 M Brownbridge (G). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 28 Nov 1990. USA: B. Bascone, Sullivan County, New Hampshire.
- 3261 M Brownbridge (K). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 7 Dec 1990. USA: Williamstown, Massachusetts.
- 3262 M Brownbridge (L). Discolored larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 7 Dec 1990. USA: Williamstown, Massachusetts.
- 3263 M Brownbridge (M). Brown larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 12 Dec 1990. USA: Clark, Massachusetts.
- 3264 M Brownbridge (N). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 17 Dec 1990. USA: Woods Forest, Connecticut.
- 3265 M Brownbridge (O). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 17 Dec 1990. USA: Woods Forest, Connecticut.
- 3267 M Brownbridge (Q). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 17 Dec 1990. USA: Woods Forest, Connecticut.
- 3268 M Brownbridge (R). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 17 Dec 1990. USA: Woods Forest, Connecticut.
- 3269 M Brownbridge (S). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 17 Dec 1990. USA: Woods Forest, Connecticut.

- 3270 M Brownbridge (T). Pink larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 17 Dec 1990. USA: Woods Forest, Connecticut.
- 3315 M Brownbridge (DT-122). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. Rec'd 19 Mar 1991. USA: Perry's sugar maple stand, Orange County, Vermont.
- 3316 M Brownbridge (Williams). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. Rec'd 19 Mar 1991. USA: William's sugar maple stand, Orange County, Vermont.
- 3317 M Brownbridge (Perry 2). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. Rec'd 19 Mar 1991. USA: Perry's sugar maple stand, Orange County, Vermont.
- 3549 M Brownbridge (R-11). Yellow mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 26 Nov 1991. USA: Thurber's sugar maple stand, Windham County, Vermont.
- 3554 M Brownbridge (R-20.1). Larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 26 Nov 1991. USA: Twitchell's sugar maple stand, Bennington County, Vermont.
- 3555 Larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 26 Nov 1991. USA: Twitchell's sugar maple stand, Bennington County, Vermont.
- 3557 M Brownbridge (R-23). Pink mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2 Dec 1991. USA: Ralph's sugar maple stand, Warren, Vermont.
- 3558 M Brownbridge (R-25). Pink mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2 Dec 1991. USA: Ralph's sugar maple stand, Warren, Vermont.
- 3559 M Brownbridge (R-27). Brown mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2 Dec 1991. USA: Begin's sugar maple stand, Windsor County, Vermont.
- 3562 M Brownbridge (R-31). Mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2 Dec 1991. USA: Motyka's sugar maple stand, Orange County, Vermont.
- 3563 M Brownbridge (R-34). Mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2 Dec 1991. USA: Motyka's sugar maple stand, Orange County, Vermont.
- 9932 [ERL 1776] S Gouli (Thr.-09-8) and V Gouli. [Thysanoptera: Thripidae]. 2010. USA: Vermont.
- 9933 [ERL 1777] S Gouli and V Gouli (Thr.-09-9). [Thysanoptera: Thripidae]. 2010. USA: Vermont.
- 9934 [ERL 1778] S Gouli (Thr.-09-10) and V Gouli. [Thysanoptera: Thripidae]. 2010. USA: Vermont.
- 10150 [ERL 1810] S Gouli (Thr.-10-28) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Altona, New York.
- 10151 [ERL 1811] S Gouli and V Gouli (Thr.-10-29). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Altona, New York.
- 10152 [ERL 1812] S Gouli (Thr.-10-30) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Rupert, Vermont.
- 10153 [ERL 1813] S Gouli and V Gouli (Thr.-10-31). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Rupert, Vermont.
- 10185 [ERL 1864] S Gouli (Thr.-10-72) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Orford, New Hampshire.
- 10194 [ERL 1872] S Gouli and V Gouli (Thr.-10-80). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.
- 10204 [ERL 1882] S Gouli and V Gouli (Thr.-10-90). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Langdon, New Hampshire.
- 10205 [ERL 1883] S Gouli (Thr.-10-91) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Langdon, New Hampshire.
- Metarhizium anisopliae** sensu lato (Metschnikoff)
- Sorokin
[Sordariomycetes: Hypocreales]
- Clavicipitaceae. These isolates were identified morphologically and have not yet been reidentified under the genomic classification of Bischoff et al. (2009).
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- 1055 [CNPS 19] F Moscardi. *Nezara viridula* [Hemiptera: Pentatomidae]. 1983. Brazil: Londrina, Paraná.
- 1432 MC Rombach (B). *Scotinophara coarctata* [Hemiptera: Pentatomidae]. 14 Apr 1984. Philippines: Maasin, Palawan.
- 1548 MC Rombach (Ma Pal.I). Adult, *Scotinophara coarctata* [Hemiptera: Pentatomidae] on rice. May 1984. Philippines: nr. PNAC Station, Arbor Lan, Palawan.
- 1882 [CP 171] DW Roberts ← C Czepak. *Tibraca limbaticentres* [Hemiptera: Pentatomidae]. 3 Jan 1985. Brazil: CNPAF, Goiânia, Goiás.
- 1883 [CP 172] DW Roberts ← JFS Martins. *Tibraca limbaticentres* [Hemiptera: Pentatomidae]. 11 Jan 1985. Brazil: CNPAF, Goiânia, Goiás.
- 2212 [CNPAF 86-06-05-9; CP 208] DW Roberts ← PMOJ Neves. *Tibraca limbaticentres* [Hemiptera: Pentatomidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2213 [CNPAF 86-06-05-8; CP 209] DW Roberts ← O Sales. *Tibraca limbaticentres* [Hemiptera: Pentatomidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2214 [CNPAF 86-06-05-7; CP 210] DW Roberts ← JFS Martins. *Tibraca limbaticentres* [Hemiptera: Pentatomidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.
- 2341 [ARSEF 2381 (never frozen), 2383 (never frozen)] MC Rombach (120286-2). *Scotinophara coarctata* [Hemiptera: Pentatomidae] on rice. 12 Feb 1986. Philippines: Palawan.

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Metarhizium anisopliae sensu lato *Pandora neoaphidis*

- 2342 [ARSEF 2384 (never frozen)] MC Rombach (120286-3). *Scotinophara coarctata* [Hemiptera: Pentatomidae] on rice. 12 Feb 1986. Philippines: Palawan.
- 2343 [ARSEF 2385 (never frozen)] MC Rombach (120286-4). *Scotinophara coarctata* [Hemiptera: Pentatomidae] on rice. 12 Feb 1986. Philippines: Palawan.
- 9591 [ERL 1055] S Gouli (ESC-1(607)WFT) and V Gouli. *Frankliniella occidentalis* [Thysanoptera: Thripidae]. 2006.
- 10135 [ERL 1795] S Gouli and V Gouli (Thr.-10-13). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.
- 10136 [ERL 1796] S Gouli (Thr.-10-14) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10137 [ERL 1797] S Gouli and V Gouli (Thr.-10-15). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.

***Metarhizium anisopliae* sensu stricto** (Metschnikoff) Sorokin
[Sordariomycetes: Hypocreales]

Clavicipitaceae. These isolates have been confirmed to belong in this narrowly redefined species in an emergent genetically based classification

- 755 [CNPAF 82-4-5-01; CP 39] RA Daoust ← J da Silva Carneiro. [Hemiptera: Pentatomidae]. 5 Apr 1982. Brazil: UEPAE/Manaus, Manaus, Amazonas.

Metarhizium pingshaense QT Chen & HL Guo
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Genomically confirmed and distinguished from *M. anisopliae* by the reclassification of Bischoff et al. (2009).

- 1448 [CNPAF 83-12-27; CP 122] E Ferreira. *Scaptore scastanea* [Hemiptera: Cydnidae]. 27 Dec 1983. Brazil: Goiatuba, Goiás.

- 1545 MC Rombach (Ma Pal.II). Adult, *Scotinophara coarctata* [Hemiptera: Pentatomidae] on rice. Jun 1984. Philippines: Brooke's Point region, Palawan.

Metarhizium robertsii JF Bischoff, SA Rehner & Humber
[Sordariomycetes: Hypocreales]

Clavicipitaceae. Segregated from *M. anisopliae* as part of a genomic reclassification by Bischoff et al. (2009). A complete genomic sequence of ARSEF 8820 (a single-spored reisolate of ARSEF 2575) is being compiled.

- 1952 [CNPAF 85-7-21; CP 177] SM dos Santos. ?*Cirtoneurus* sp. [Hemiptera: Cydnidae]. 27 Jul 1985. Brazil: Goiânia, Goiás.

Neozygites parvispora (DM MacLeod & KP Carl)
Remaudière & S Keller
[Entomophthoromycotina: Entomophthorales]
Neozygitaceae

- 5620 A Grundschober (301). *Thrips tabaci* [Thysanoptera:

Thripidae] on *Allium porrum*. 17 Oct 1996. Switzerland: organic vegetable farm in Winkel, Bülach, Zurich.

- 5621 A Grundschober (302). *Thrips tabaci* [Thysanoptera: Thripidae] on *Allium porrum*. 17 Oct 1996. Switzerland: organic vegetable farm in Winkel, Bülach, Zurich.

***Paecilomyces* sp.**

[Sordariomycetes: Hypocreales]

These still unidentified species has yet been assigned to a correct genus after the recent gene-based reclassification of species out of *Paecilomyces* Section *Isarioidea*; this original generic identification remains provisional until a more thorough analyses of these isolates are completed.

- 3101 L Loch (CB-75). *Nezara viridula* [Hemiptera: Pentatomidae]. 1986. Brazil: Piracicaba, São Paulo.

- 7075 KT Hodge (PR16). [Hemiptera: Pentatomidae] on *Acanthaceae*. 5 Jul 2002. USA: El Yunque, Caribbean National Forest, Anhalito Trail, tabonuco forest, Río Grande Municipio, Puerto Rico.

Paecilomyces marquandii (Massee) Hughes

[Sordariomycetes: Hypocreales]

Clavicipitaceae. This species has been placed in the Hypocreales by phylogenetic analysis but not into a correct genus according to its genomic sequences. The recent reclassification of *Paecilomyces* Section *Isarioidea* requires this species placement in a different genus.

- 9928 [ERL 1772] S Gouli (Thr.-09-4) and V Gouli. [Thysanoptera: Thripidae]. 2010. USA: Vermont.

- 9929 [ERL 1773] S Gouli and V Gouli (Thr.-09-5). [Thysanoptera: Thripidae]. 2010. USA: Vermont.

Pandora delphacis (Hori) Humber

[Entomophthoromycotina: Entomophthorales]
Entomophthoraceae

- 3062 M Wheeler. [Hemiptera: Miridae]. 13 Aug 1990. USA: Snapp field # 2D, Newark Valley, New York.

Pandora heteropterae (Balazy) S Keller

[Entomophthoromycotina: Entomophthorales]
Entomophthoraceae

- 9266 JJ Hannam. *Lygus lineolaris* [Hemiptera: Miridae] collected from weeds on the edge of cornfield. 1 Sep 2008. USA: Johnson County, Arkansas. 35°23'34" N, 93°42'03" W.

Pandora neoaphidis (Remaudière & Hennebert) Humber
[Entomophthoromycotina: Entomophthorales]
Entomophthoraceae

- 1570 DW Roberts ← F Messina. *Lygus* sp. [Hemiptera: Miridae] on cowpea. 31 Aug 1984. USA: Ithaca, New York.

***Polycephalomyces ramosus* (Peck) Mains**
[Sordariomycetes: Hypocreales]

- 4858 JM Sung (C-419). Adult, [Hemiptera: Pentatomidae]. 3 Jul 1994. Republic of Korea: KNU Experiment Forest, Kangwon National University. Mycoparasite on stroma of *Cordyceps* sp. (perhaps *C. nutans*).

***Purpureocillium lilacinum* (Thom)** Luangsa-ard, Houbraken, Hywel-Jones & Samson
[Sordariomycetes: Hypocreales]

Synonym: *it Paecilomyces lilacinus*. Ophiocordycipitaceae. This species is the type of a monotypic new genus erected following the phylogenetic reclassification of *Paecilomyces* Section *Isarioidea*. This species can cause human mycoses, mainly of the eye, but probably presents little or no risk if handled with routine sterile microbiological techniques for transfers or bioassay procedures, etc. Avoid chronic and/or large-scale exposure to airborne conidia to minimize any health risks.

- 531 DW Roberts (82180-13b). [Hemiptera: Pentatomidae]. 21 Aug 1980. Malaysia.
763 PM Chang. *Scotinophara coarctata* [Hemiptera: Pentatomidae]. 3 Feb 1982. Malaysia: Rice Research Center, Mardi, Bumbong Lima, Icepala Batas, Wellesley Province.
2215 [CNPAF 86-06-05-2; CP 211] DW Roberts ← PMOJ Neves. *Tibraca limbaticollis* [Hemiptera: Pentatomidae]. 5 Jun 1986. Brazil: CNPAF, Goiânia, Goiás.
6018 BL Parker ← V Gouli (SPT-R-183). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 18 Sep 1998. Russian Federation: Volgograd.
6021 BL Parker ← V Gouli (SPT-R-196). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
6024 BL Parker ← V Gouli (SPT-R-206). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
6026 BL Parker ← V Gouli (SPT-R-246). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
6080 BL Parker (SPT-2-319/1). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiia.
6081 BL Parker (SPT-U-325). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 13 Jan 1999. Uzbekistan: GPS coordinates - N 40°52.116', E 069°55.812'.
6082 BL Parker (SPT-U-329). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 18 Jan 1999. Uzbekistan: GPS coordinates - N 40°50.450', E 069°56.680'.
6084 BL Parker (SPT-U-306). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 16 Jan 1999. Uzbekistan: Site d, SW of Samarkand, Mirankul region.

6094 BL Parker (SPT-U-332). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 18 Jan 1999. Uzbekistan: GPS coordinates - N 40°50.450', E 069°56.680'.

6114 BL Parker (SPT-2-345). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 24 Jan 1999. Syria: Al Kseabiia.

6116 BL Parker (SPT-2-359). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 24 Jan 1999. Syria: Al Kseabiia.

6117 BL Parker (SPT-U-361). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 18 Jan 1999. Uzbekistan: GPS coordinates - N 40°50.450', E 069°56.680'.

6494 BL Parker (SPT-KZ-431). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae] overwintering in soil. 6 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.530' E 076°36.526'. **RESTRICTED ACCESS:**

contact Curator

6502 BL Parker (SPT-KZ-461). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae] overwintering in soil. 4 Feb 2000. Kazakhstan: GPS Coordinates N 43°22.366' E 077°20.486'. **RESTRICTED ACCESS:**

contact Curator

7478 [CEP 071] C López Lastra. *Triatoma infestans* [Hemiptera: Reduviidae]. 17 Dec 2003. Argentina: Santiago del Estero.

10225 A Khan. *Edessa meditabunda* [Hemiptera: Pentatomidae] on *Datura* sp. 20 Jun 2010. West Indies: Barrackpore, Trinidad.

***Scopulariopsis* sp.**

[Sordariomycetes: Microascales]

10309 [ERL 1954] S Gouli and V Gouli (SB-10-1). *Halyomorpha halys* [Hemiptera: Pentatomidae]. Sep 2010. USA: New Jersey.

10310 [ERL 1955] S Gouli (SB-10-2) and V Gouli. *Halyomorpha halys* [Hemiptera: Pentatomidae]. Oct 2010. USA: New Jersey.

***Simplicillium lanosoniveum* (F. H. Beyma)** Zare & W. Gams
[Sordariomycetes: Hypocreales]
Cordycipitaceae

6430 [EMBRAPA/CPAC] DEN Rangel (CPAC H1). *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 14 Feb 2000. French Guiana.

6431 [EMBRAPA/CPAC] DEN Rangel (CPAC H3). *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 14 Feb 2000. French Guiana.

6432 [EMBRAPA/CPAC] DEN Rangel (CPAC H6). *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 14 Feb 2000. French Guiana.

6636 SB Alves (ESALQ 1226). *Leptopharsa heveae* [Hemiptera: Tingidae]. 28 Sep 1998. Brazil: Itiquira, Mato Grosso.

Fungal Cultures

Simplicillium lanosoniveum
Verticillium sp.

6637 SB Alves (ESALQ 1227). *Leptopharsa heveae* [Hemiptera: Tingidae]. 28 Sep 1998. Brazil: Itiquira, Mato Grosso.

6642 SB Alves (ESALQ 1237). *Leptopharsa heveae* [Hemiptera: Tingidae]. 11 Nov 1998. Brazil: Brasília, Distrito Federal.

Sterile mycelium

1435 MC Rombach (II.1). *Scotinophara coarctata* [Hemiptera: Pentatomidae]. 14 Apr 1984. Philippines: Maasin, Palawan.

Tolyphocladium sp.

[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae

6634 SB Alves (ESALQ 1224). *Leptopharsa heveae* [Hemiptera: Tingidae]. 31 Aug 1998. Brazil: São José do Rio Claro, Mato Grosso.

Tolyphocladium cylindrosporum W Gams

[Sordariomycetes: Hypocreales]
Ophiocordycipitaceae

10146 [ERL 1806] S Gouli (Thr.-10-9) and V Gouli. *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.

Trichoderma sp.

[Sordariomycetes: Hypocreales]
Hypocreaceae

9938 [ERL 1785] S Gouli and V Gouli (Thr.-09-17). [Thysanoptera: Thripidae]. 2010. USA: Vermont.

Trichothecium sp.

[Sordariomycetes: Hypocreales]
Hypocreaceae

1217 TJ Poprawski (050A). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 1 Jun 1983. Italy: Acquapendente, Lazio.

1223 TJ Poprawski (060A). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 7 Jun 1983. Italy: Acquapendente, Lazio.

Trichothecium roseum Link:Fries

[Sordariomycetes: Hypocreales]
Hypocreaceae

1212 TJ Poprawski (042). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 25 May 1983. Italy: Acquapendente, Lazio.

1226 TJ Poprawski (001A). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 18 May 1983. Italy: Vetralla, Lazio.

1308 TJ Poprawski (044). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 23 May 1983. Italy: Acquapendente, Lazio.

1639 TJ Poprawski (0136). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 13 Jul 1984. Austria: Burgenland.

1642 TJ Poprawski (0139). Nymph, *Adelphocoris* sp. [Hemiptera: Miridae]. 13 Jul 1984. Austria: Burgenland.

Verticillium sp.

[Sordariomycetes: Hypocreales]

These species are being reclassified to the appropriate genus and species as they are being re-examined after the phylogenetically based reclassification of *Verticillium* Section *Prostrata*.

3547 M Brownbridge (R-6). Larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 20 Nov 1991. USA: Laggis' sugar maple stand, Caledonia County, Vermont.

3550 M Brownbridge (R-12). White mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 26 Nov 1991. USA: Goodhouse's sugar maple stand, Windsor County, Vermont.

3551 M Brownbridge (R-13). Pink mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 26 Nov 1991. USA: Rowe's sugar maple stand, Caledonia County, Vermont.

3552 M Brownbridge (R-14). Yellow mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 26 Nov 1991. USA: Preseau's sugar maple stand, Addison County, Vermont.

3556 M Brownbridge (R-22). Pink mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2 Dec 1991. USA: Ralph's sugar maple stand, Washington County, Vermont.

3561 M Brownbridge (R-29). Mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2 Dec 1991. USA: Motyka's sugar maple stand, Orange County, Vermont.

6480 BL Parker (SPT-KR-389/1). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae] overwintering in soil. 12 Feb 2000. Kyrgyz Republic: GPS Coordinates N 43°39.257' E 073°54.353'. **RESTRICTED ACCESS:**

contact Curator

6485 BL Parker (SPT-KZ-413). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae] overwintering in soil. 3 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.534' E 076°36.541'. **RESTRICTED ACCESS:**

contact Curator

6498 BL Parker (SPT-KZ-445). Adult, [Hemiptera: Rhopalidae] overwintering in soil. 5 Feb 2000. Kazakhstan: GPS Coordinates N 44°14.205' E 077°42.544'. **RESTRICTED ACCESS:**

contact Curator

***Verticillium* sp.**

Unidentified / Hyphomycetes

Fungal Cultures

- 6500 BL Parker (SPT-KZ-457). Adult, *Aelia* sp. [Hemiptera: Pentatomidae] overwintering in soil. 6 Feb 2000. Kazakhstan: GPS Coordinates N 43°09.121' E 076°35.771'. **RESTRICTED ACCESS:**

*contact Curator****Verticillium lecanii* (Zimmerman) Viégas**

[Sordariomycetes: Hypocreales]

Cordycipitaceae. A species complex now reclassified in *Lecanicillium* and distributed among three species. Isolates remaining here are being transferred to the appropriate species as they are re-examined.

- 5709 T Steenberg (TT4). *Thrips tabaci* [Thysanoptera: Thripidae]. Rec'd 22 Apr 1998. Denmark.
- 6010 BL Parker ← V Gouli (SPT-R-151). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 19 Sep 1998. Russian Federation: Volgograd.
- 6025 BL Parker ← V Gouli (SPT-R-215). Overwintering adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. 22 Sep 1998. Russian Federation: Krasnii Sulin, Rostov.
- 6068 BL Parker (SPT-U-271). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiaa.
- 6085 BL Parker (SPT-2-309/1). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae]. Fall 1998. Syria: Al Kseabiaa.
- 6479 BL Parker (SPT-KZ-377). Adult, *Eurygaster* sp. [Hemiptera: Scutelleridae] overwintering in soil. 3 Feb 2000. Kazakhstan: GPS Coordinates N 43°08.534' E 076°36.541'. **RESTRICTED ACCESS:**

contact Curator

- 6548 D Chandler (HRI 53.81). [Thysanoptera: Thripidae]. Rec'd 13 Jul 2000. United Kingdom.
- 6651 [EMBRAPA/CPAC] DEN Rangel (CPAC H2). *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 25 Oct 2000. French Guiana.

***Zoophthora anglica* (Petch) Ben-Ze'ev & RG Kenneth**

[Entomophthoromycotina: Entomophthorales]

Entomophthoraceae

- 916 S Keller (411). *Notostira elongata* [Hemiptera: Miridae]. 25 Aug 1982. Switzerland.
- 926 S Keller (412). *Notostira elongata* [Hemiptera: Miridae]. 25 Aug 1982. Switzerland.

***Zoophthora radicans* (Brefeld) Batko**

[Entomophthoromycotina: Entomophthorales]

Entomophthoraceae. Major synonyms: *Entomophthora sphaerosperma* Fresenius, *Entomophthora radicans* Brefeld, *Erynia radicans* (Brefeld) Humber, Ben-Ze'ev & Kenneth in Humber & Ben-Ze'ev.

- 389 S Keller (217). *Dicyphus pallidus* [Hemiptera: Miridae]. Rec'd 3 Oct 1979. Switzerland: Zürich.

Unidentified / Hyphomycetes

- 3142 AT Gillespie ← J Aagesen. *Thrips tabaci* [Thysanoptera: Thripidae] on cucumber. Rec'd 27 Nov 1990. Denmark: Copenhagen, Tåstrup, Zealand.
- 5698 JM Sung (KEFC-1109). *Acanthosoma labiduroides* [Hemiptera: Pentatomidae]. 28 Jun 1997. Republic of Korea: Mt. Gyaeryong, Chungnam Province.
- 6504 S Gouli and V Gouli (GA-347). Adult, *Lygus lineolaris* [Hemiptera: Miridae] on *Brassica oleracea* L., broccoli. Oct 1999. USA: Starksboro, Vermont.
- 8640 [ARSEF 7985; CENARGEN CG 422] *Leptopharsa heveae* [Hemiptera: Tingidae]. Rec'd 18 Sep 2007. Brazil: Dom Aquino, Mato Grosso. **RE-RESTRICTED ACCESS:** consult Curator.
- 10191 [ERL 1869] S Gouli (Thr.-10-77) and V Gouli. *Tae-nothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Westfield, Vermont.
- 10282 [ERL 1927] S Gouli (Thr.-10-133) and D Tobi. *Tae-nothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10283 [ERL 1928] S Gouli and V Gouli (Thr.-10-134). *Tae-nothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10284 [ERL 1929] S Gouli (Thr.-10-135) and V Gouli. *Tae-nothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10285 [ERL 1930] S Gouli (Thr.-10-136) and D Tobi. *Tae-nothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10286 [ERL 1931] S Gouli and V Gouli (Thr.-10-137). *Tae-nothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Underhill, Vermont.
- 10292 [ERL 1937] S Gouli and V Gouli (Thr.-10-143). *Tae-nothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.
- 10293 [ERL 1938] S Gouli (Thr.-10-144) and V Gouli. *Tae-nothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Bakersfield, Vermont.
- 10307 [ERL 1952] S Gouli and V Gouli (Thr.-10-158). *Tae-nothrips inconsequens* [Thysanoptera: Thripidae]. 2010. USA: Orford, New Hampshire.
- 10386 [ERL 1959] S Gouli (SB-10-6) and V Gouli. *Ha-lyomorpha halys* [Hemiptera: Pentatomidae]. 2010. USA: New Jersey.
- 10387 [ERL 1960] S Gouli and V Gouli (SB-10-7). *Ha-lyomorpha halys* [Hemiptera: Pentatomidae]. 2010. USA: New Jersey.
- 10392 [ERL 1965] S Gouli (SB-10-12) and V Gouli. *Ha-lyomorpha halys* [Hemiptera: Pentatomidae]. 2010. USA: New Jersey.

Unidentified sp.

These fungi were accessioned without verified identifications. Many strains listed here will be reassigned to known taxa as quickly as the opportunity allows. Some strains are undescribed new species; some are sterile and may not be identifiable to a level lower than the class.

- 1423 S Balazy (1508m). Juveniles & adults, [Hemiptera] attached to underside of leaves of *Stachys sylvaticus* in a leafy forest. 26 Jul 1982. Poland: Wielkopolski National Park.
- 3256 M Brownbridge (E). Green larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 28 Nov 1990. USA: Hunterdon, New Jersey.
- 3319 M Brownbridge (Perry 3). *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. Rec'd 19 Mar 1991. Location not specified.
- 3560 M Brownbridge (R-28). Mummified larva, *Taeniothrips inconsequens* [Thysanoptera: Thripidae]. 2 Dec 1991. USA: Ralph's sugar maple stand, Warren, Vermont.
- 3570 M Brownbridge (WFT-3). *Frankliniella occidentalis* [Thysanoptera: Thripidae] on chrysanthemum. Aug 1991. USA: greenhouse, Burlington, Vermont.
- 3990 LA Lacey (93027) ← A Lacasa. *Haplothrips tritici* [Thysanoptera: Phlaeothripidae]. 1993. Spain: Murcia.
- 3991 LA Lacey (93028) ← A Lacasa. *Haplothrips tritici* [Thysanoptera: Phlaeothripidae]. 1993. Spain: Murcia.
- 3992 LA Lacey (93029) ← A Lacasa. *Haplothrips tritici* [Thysanoptera: Phlaeothripidae]. 1993. Spain: Murcia.
- 3993 LA Lacey (93030) ← A Lacasa. *Frankliniella occidentalis* [Thysanoptera: Thripidae]. 1993. Spain: Murcia.
- 3994 LA Lacey (93031) ← A Lacasa. *Frankliniella occidentalis* [Thysanoptera: Thripidae]. 1993. Spain: Murcia.
- 3997 LA Lacey (93034) ← A Lacasa. *Frankliniella occidentalis* [Thysanoptera: Thripidae]. 1993. Spain: Murcia.
- 4201 LA Lacey (94014) ← La Casa. Larva, *Haplothrips tritici* [Thysanoptera: Phlaeothripidae]. 5 May 1993. Spain: Murcia.
- 4202 LA Lacey (94019) ← La Casa. Larva, *Haplothrips tritici* [Thysanoptera: Phlaeothripidae]. Feb 1993. Spain: Murcia.

Host by Fungus

Acremonium sp.
Hirsutella sp.

Acremonium sp.		
[Thysanoptera: Thripidae]		
<i>Thrips tabaci</i> 4063		
Acremonium bactrocephalum		
[Thysanoptera: Thripidae]		
<i>Taeniothrips inconsequens</i> 10166		
10167 10168 10169		
Acremonium psammosporum		
[Thysanoptera: Thripidae]		
<i>Thrips tabaci</i> 4062		
Acremonium(?) sp.		
[Thysanoptera: Thripidae]		
<i>Frankliniella occidentalis</i> 7031		
Aphanocladium album		
[Hemiptera: Scutelleridae]		
<i>Eurygaster</i> 5756		
Aspergillus sp.		
[Hemiptera: Pentatomidae]		
<i>Dolycorus</i> 6405 6406 6408		
<i>Nezara viridula</i> 8280		
[Hemiptera: Scutelleridae]		
<i>Eurygaster</i> 6399		
Aspergillus niger		
[Hemiptera: Pentatomidae]		
<i>Dolycorus</i> 6407		
[Hemiptera: Scutelleridae]		
<i>Eurygaster</i> 5721		
Aspergillus ochraceus		
[Hemiptera: Scutelleridae]		
<i>Eurygaster</i> 5722		
Beauveria sp.		
[Hemiptera: Miridae]		
<i>Adelphocoris</i> 1195 1196 1197 1198		
1199 1200 1201 1202 1203 1204		
1205 1206 1207 1208 1209 1210		
1211 1213 1214 1215 1216 1218		
1219 1220 1221 1222 1224		
[Hemiptera: Scutelleridae]		
<i>Eurygaster</i> 5686		
Beauveria bassiana		
[Hemiptera]		
Unknown species 5978		
[Hemiptera: Anthocoridae]		
<i>Anthocoris nemorum</i> 8028		
[Hemiptera: Coreidae]		
<i>Leptoglossus fulvifrons</i> 3086		
[Hemiptera: Lygaeidae]		
Unknown species 8706		
<i>Blissus leucopterus</i> 792 2430		
<i>Nysius vinitor</i> 300		
<i>Scolopostethus affinis</i> 8027		
[Hemiptera: Mesoveliidae]		
<i>Mesovelvia mulsanti</i> 320		
[Hemiptera: Miridae]		
Unknown species 3449 3454 3456		
<i>Adelphocoris</i> 1516 1517 1523 1524		
1525 1526 1527 1528 1529 1531		
1533 1534 1535 1536 1537 1538		
1539 1540 1635 1636 1637 1638		
1640 1643 1650 1789 1790 1791		
	1792 1793 1794 1795 1796 1797	
	1798 1799 1800 1801	
<i>Leptopterna dolabrata</i> 8036		
<i>Liochoris tripustulatus</i> 8025		
<i>Lygus</i> 886 1394 1395 1396 1397 1404		
1405 1406 1407 1408 1409 1410		
1411 1412 1413 1414 1520 1521		
1648 1649 1802 1803 1804 1805		
1806 1807 1808 1809 1810 1812		
1813 1814 1822 2318 2319 2320		
2321 2322 2458 2462		
<i>Lygus ?lineolaris</i> 1317 1318 1319 1320		
1321 1322 1323 1324 1325		
<i>Lygus hesperus</i> 6660 6661		
<i>Lygus lineolaris</i> 3769 5808 8317 8889		
<i>Lygus pratensis</i> 2461		
<i>Notostira elongata</i> 8029 8030		
<i>Stenodema laevigatum</i> 8026		
[Hemiptera: Nabidae]		
<i>Nabis</i> 1988		
[Hemiptera: Pentatomidae]		
Unknown species 737 944 1973 1974		
1984 6722		
<i>Acanthosoma labiduroides</i> 7240 7246		
7273		
<i>Aelia</i> 6093		
<i>Dolycorus</i> 6404 6426		
<i>Euschistus heros</i> 1478		
<i>Nezara viridula</i> 1054 1474 2011 2457		
2516 4092 4093		
<i>Oebalus poecilus</i> 2191		
<i>Podisus</i> 1457 2519		
<i>Tibraca limbaticollis</i> 933 4091		
[Hemiptera: Reduviidae]		
<i>Triatoma infestans</i> 7147		
[Hemiptera: Rhopalidae]		
<i>Leptocoris</i> 560 566		
<i>Leptocoris oratorius</i> 1269 1270		
[Hemiptera: Scutelleridae]		
<i>Eurygaster</i> 5665 5674 5724 5725 5753		
5762 6008 6009 6011 6013 6014		
6015 6016 6019 6022 6039 6040		
6041 6042 6043 6056 6060 6065		
6066 6067 6069 6070 6072 6073		
6076 6079 6083 6086 6087 6088		
6089 6090 6091 6115 6149 8932		
10348 10349 10351 10352 10353		
10354 10355 10356 10357 10358		
10359 10360 10361 10362		
[Hemiptera: Tingidae]		
<i>Corythucha ciliata</i> 812		
<i>Leptopharsa heveae</i> 7984 8637 8638		
[Thysanoptera: Phlaeothripidae]		
<i>Haplothrips tritici</i> 4200		
[Thysanoptera: Thripidae]		
Unknown species 9927		
<i>Frankliniella occidentalis</i> 3995 3996		
9587 9588		
<i>Taeniothrips inconsequens</i> 10138		
10139 10140 10143 10144 10145		
10147 10148		
Beauveria bassiana(?)		
[Hemiptera: Scutelleridae]		
<i>Eurygaster</i> 5684		
Beauveria brongniartii		
[Hemiptera: Scutelleridae]		
<i>Eurygaster</i> 6023		
Beauveria pseudobassiana		
[Thysanoptera: Thripidae]		
<i>Thrips calcaratus</i> 3216		
Cladosporium cladosporioides		
[Thysanoptera: Thripidae]		
<i>Thrips palmi</i> 3375		
Conidiobolus coronatus		
[Thysanoptera: Thripidae]		
Unknown species 6512 9914		
<i>Frankliniella occidentalis</i> 3222		
Cordyceps sp.		
[Hemiptera: Pentatomidae]		
Unknown species 4846		
Cylindrocarpon sp.		
[Hemiptera: Pentatomidae]		
<i>Aelia</i> 5758		
Entomophthora thripidum		
[Thysanoptera: Thripidae]		
<i>Thrips tabaci</i> 5868 6517 6518 6519		
6520 6521 6522 6525		
Evlachovaea sp.		
[Hemiptera: Tingidae]		
<i>Leptopharsa heveae</i> 6635 6638 6639		
6640 6641		
Furia virescens		
[Hemiptera: Miridae]		
<i>Notostira elongata</i> 394		
Fusarium sp.		
[Hemiptera: Miridae]		
<i>Adelphocoris</i> 1307 1641		
[Hemiptera: Pentatomidae]		
<i>Dolycorus</i> 6411		
<i>Halyomorpha halys</i> 10311 10312 10313		
10388 10389 10390 10391		
[Hemiptera: Reduviidae]		
<i>Triatoma infestans</i> 7473		
[Hemiptera: Scutelleridae]		
<i>Eurygaster</i> 5680 5682 5755 5757 6394		
6395 6396 6397 6398 6400 6401		
6402 6403 6409 6410 6425 6428		
6429		
[Thysanoptera: Thripidae]		
Unknown species 9937		
<i>Scirtothrips dorsalis</i> 7381		
Fusarium subglutinans		
[Hemiptera: Lophopidae]		
<i>Pyrilla perpusilla</i> 2143 2144		
Hirsutella sp.		
[Hemiptera: Miridae]		
<i>Cyrtorhinus lividipennis</i> 2208 2209		
[Thysanoptera: Phlaeothripidae]		
<i>Liothrips mikaniae</i> 4513 4514		
[Thysanoptera: Thripidae]		
<i>Taeniothrips inconsequens</i> 2939 2940		
3266 3318 3546 3548 3553		
<i>Thrips palmi</i> 4193		

Isaria sp.	Lecanicillium muscarium	Paecilomyces sp.
[Hemiptera: Scutelleridae] Eurygaster 10363 10364 10365 10366 10367 10368 10369 10370 10371 10372 10373 10374 10375 10376 10377 10378 10379 10380 10381 10382 10383 10384 10385	[Hemiptera: Scutelleridae] Eurygaster 6118 [Thysanoptera: Thripidae] Unknown species 2923 Frankliniella occidentalis 3684 3685 3686 3690 3691 Taeniothrips inconsequens 10178	[Hemiptera: Pentatomidae] Unknown species 7075 Nezara viridula 3101
[Thysanoptera: Thripidae] Taeniothrips inconsequens 10162 10231 10232 10233		
Isaria farinosa	Lecanicillium muscarium(?)	Paecilomyces marquandii
[Hemiptera: Lygaeidae] Unknown species 6496	[Thysanoptera: Thripidae] Frankliniella occidentalis 3687	[Thysanoptera: Thripidae] Unknown species 9928 9929
[Hemiptera: Miridae] Unknown species 6607		
[Hemiptera: Pentatomidae] Aelia 6097 6098 6493 6497	Lecanicillium psalliotae	Pandora delphacis
[Hemiptera: Scutelleridae] Eurygaster 5675 5676 5679 6012 6017 6020 6044 6481 6490 6495	[Hemiptera: Scutelleridae] Eurygaster 5666 5681 5683 5763 5835 6071 [Thysanoptera: Thripidae] Taeniothrips inconsequens 10170 10175 10176 10177 10180 10181 10182	[Hemiptera: Miridae] Unknown species 3062
Eurygaster integriceps 6288		
[Thysanoptera: Thripidae] Taeniothrips inconsequens 3564 10155 10157 10158 10159 10161	Lecanicillium psalliotae(?)	Pandora heteropterae
	[Thysanoptera: Thripidae] Taeniothrips inconsequens 10183	[Hemiptera: Miridae] Lygus lineolaris 9266
Isaria fumosorosea	Mariannaea sp.	Pandora neoaphidis
[Hemiptera: Miridae] Adelphocoris 1530 1532	[Thysanoptera: Thripidae] Unknown species 9932 9933 9934	[Hemiptera: Miridae] Lygus 1570
[Hemiptera: Pentatomidae] Unknown species 3429	Taeniothrips inconsequens 2930 3252 3257 3258 3261 3262 3263 3264 3265 3267 3268 3269 3270 3315 3316 3317 3549 3554 3555 3557 3558 3559 3562 3563 10150 10151 10152 10153 10185 10194 10204 10205	Polycephalomyces ramosus
Lecanicillium sp.	Metarhizium anisopliae sensu lato	[Hemiptera: Pentatomidae] Unknown species 4858
[Hemiptera: Tingidae] Leptopharsa heveae 8639	[Hemiptera: Pentatomidae] Nezara viridula 1055 Scotinophara coarctata 1432 1548 2341 2342 2343 Tibraca limbativentres 1882 1883 2212 2213 2214	Purpureocillium lilacinum
[Thysanoptera: Thripidae] Unknown species 9930 9931 9935 9936	[Thysanoptera: Thripidae] Frankliniella occidentalis 9591 Taeniothrips inconsequens 10135 10136 10137	[Hemiptera: Pentatomidae] Unknown species 531 Edessa meditabunda 10225 Scotinophara coarctata 763 Tibraca limbativentres 2215
Taeniothrips inconsequens 3253 3254 3255 3259 3260 10154 10187 10188 10189 10190 10192 10193 10195 10196 10197 10198 10199 10200 10201 10202 10203 10206 10207 10208 10209 10210 10211 10212 10213 10214 10287 10288 10289 10290 10291 10294 10295 10296 10297 10298 10299 10300 10301 10302 10303 10304 10305 10306		[Hemiptera: Reduviidae] Triatoma infestans 7478
Lecanicillium aphanocladii(?)	Metarhizium anisopliae sensu stricto	[Hemiptera: Scutelleridae] Eurygaster 6018 6021 6024 6026 6080 6081 6082 6084 6094 6114 6116 6117 6494 6502
[Hemiptera: Tingidae] Leptopharsa heveae 7985 7986	[Hemiptera: Pentatomidae] Unknown species 755	Scopulariopsis sp.
Lecanicillium fusisporum(?)	Metarhizium pingshaense	[Hemiptera: Pentatomidae] Halyomorpha halys 10309 10310
[Thysanoptera: Thripidae] Taeniothrips inconsequens 10184	[Hemiptera: Cydnidae] Scaptoreas castanea 1448	
Lecanicillium lecanii	[Hemiptera: Pentatomidae] Scotinophara coarctata 1545	Simplicillium lanosoniveum
[Thysanoptera: Thripidae] Frankliniella occidentalis 3683 3688		[Hemiptera: Tingidae] Leptopharsa heveae 6430 6431 6432 6636 6637 6642
Lecanicillium lecanii(?)	Metarhizium robertsii	Sterile mycelium
[Thysanoptera: Thripidae] Frankliniella occidentalis 3689 Thrips tabaci 5580	[Hemiptera: Cydnidae] ?Cirtonemus 1952	[Hemiptera: Pentatomidae] Scotinophara coarctata 1435
Lecanicillium longisporum	Neozygites parvispora	Topyocladium sp.
[Thysanoptera: Thripidae] Unknown species 3701	[Thysanoptera: Thripidae] Thrips tabaci 5620 5621	[Hemiptera: Tingidae] Leptopharsa heveae 6634
		Topyocladium cylindrosporum
		[Thysanoptera: Thripidae] Taeniothrips inconsequens 10146
		Trichoderma sp.
		[Thysanoptera: Thripidae] Unknown species 9938
		Trichothecium sp.
		[Hemiptera: Miridae] Adelphocoris 1217 1223
		Trichothecium roseum
		[Hemiptera: Miridae] Adelphocoris 1212 1226 1308 1639 1642

Host by Fungus

Verticillium sp.
Unidentified sp.

***Verticillium* sp.**

[Hemiptera: Pentatomidae]
Aelia 6500
[Hemiptera: Rhopalidae]
Unknown species 6498
[Hemiptera: Scutelleridae]
Eurygaster 6480 6485
[Thysanoptera: Thripidae]
Taeniothrips inconsequens 3547 3550
3551 3552 3556 3561

Verticillium lecanii

[Hemiptera: Scutelleridae]
Eurygaster 6010 6025 6068 6085 6479
[Hemiptera: Tingidae]
Leptopharsa heveae 6651
[Thysanoptera: Thripidae]
Unknown species 6548
Thrips tabaci 5709

Zoophthora anglica

[Hemiptera: Miridae]
Notostira elongata 916 926

Zoophthora radicans

[Hemiptera: Miridae]
Dicyphus pallidus 389

Unidentified / Hyphomycetes

[Hemiptera: Miridae]
Lygus lineolaris 6504
[Hemiptera: Pentatomidae]
Acanthosoma labiduroides 5698
Halyomorpha halys 10386 10387 10392
[Hemiptera: Tingidae]
Leptopharsa heveae 8640
[Thysanoptera: Thripidae]
Taeniothrips inconsequens 10191
10282 10283 10284 10285 10286
10292 10293 10307
Thrips tabaci 3142

Unidentified sp.

[Hemiptera]
Unknown species 1423
[Thysanoptera: Phlaeothripidae]
Haplothrips tritici 3990 3991 3992
4201 4202
[Thysanoptera: Thripidae]
Frankliniella occidentalis 3570 3993
3994 3997
Taeniothrips inconsequens 3256 3319
3560

Animalia

Arthropoda • Insecta

Hemiptera

Poland
Unidentified sp. 1423
USA, Florida
Beauveria bassiana 5978

Hemiptera: Anthocoridae

Anthocoris nemorum
Denmark
Beauveria bassiana 8028

Hemiptera: Coreidae

Leptoglossus fulvicornis
USA, Florida
Beauveria bassiana 3086

Hemiptera: Cydnidae

?*Cirtonemus* sp.
Brazil, Goiás
Metarhizium robertsii 1952
Scaptoperla castanea
Brazil, Goiás
Metarhizium pingshaense 1448

Hemiptera: Lophopidae

Pyrilla perpusilla
India
Fusarium subglutinans 2143 2144

Hemiptera: Lygaeidae

Kazakhstan
Isaria farinosa 6496
USA, Hawaii
Beauveria bassiana 8706
Blissus leucopterus
USA, Kansas
Beauveria bassiana 792 2430
Nysius vinitor
Australia
Beauveria bassiana 300
Scolopostethus affinis
Denmark
Beauveria bassiana 8027

Hemiptera: Mesoveliidae

Mesovelia mulsanti
USA, Florida
Beauveria bassiana 320

Hemiptera: Miridae

Costa Rica
Beauveria bassiana 3449 3454 3456
Indonesia, Jawa Barat, Java
2132
South Africa
Isaria farinosa 6607
USA, New York
Pandora delphacis 3062

Adelphocoris sp.

Austria
Beauveria bassiana 1533 1534 1535
1536 1537 1538 1539 1540 1635
1636 1637 1638 1640 1643

Fusarium sp. 1641
Trichothecium roseum 1639 1642

France

Beauveria bassiana 1516 1517 1523
1524 1650 1789 1790 1791 1792
1793 1794 1795 1796 1797 1798
1799 1800 1801

Italy

Beauveria bassiana 1525 1526 1527
1528 1529 1531
Beauveria sp. 1195 1196 1197 1198
1199 1200 1201 1202 1203 1204
1205 1206 1207 1208 1209 1210
1211 1213 1214 1215 1216 1218
1219 1220 1221 1222 1224 1307

Isaria fumosorosea 1530 1532
Trichothecium roseum 1212 1226
1308
Trichothecium sp. 1217 1223

Cyrtorhinus lividipennis

Philippines
Hirsutella sp. 2208 2209

Dicyphus pallidus

Switzerland
Zoophthora radicans 389

Leptopterna dolabrata

Denmark
Beauveria bassiana 8036

Liocoris tripustulatus

Denmark
Beauveria bassiana 8025

Lygus sp.

France
Beauveria bassiana 1394 1395 1396
1397 1404 1405 1406 1407 1408
1409 1410 1411 1412 1413 1414
1520 1521 1648 1649 2318 2319
2320 2321 2322 2458 2462

Greece

Beauveria bassiana 1802 1803 1812
1822

Spain

Beauveria bassiana 886 1804 1805
1806 1807 1808 1809 1810 1813
1814

USA, New York

Pandora neoaphidis 1570

Lygus ?lineolaris

France
Beauveria bassiana 1317 1318 1319
1320 1321 1322 1323 1324 1325

Lygus hesperus

USA, California
Beauveria bassiana 6660 6661

Lygus lineolaris

USA, Arkansas

Beauveria bassiana 3769

Pandora heteropterae 9266

USA, Mississippi

Beauveria bassiana 8317 8889

USA, New York

Beauveria bassiana 5808

USA, Vermont

Unidentified / Hyphomycetes
6504

Lygus pratensis

France

Beauveria bassiana 2461

Notostira elongata

Denmark

Beauveria bassiana 8029 8030

Switzerland

Furia virescens 394

Zoophthora anglica 916 926

Stenodema laevigatum

Denmark

Beauveria bassiana 8026

Hemiptera: Nabidae

Nabis sp.

Austria

Beauveria bassiana 1988

Hemiptera: Pentatomidae

Austria

Beauveria bassiana 1973 1974

Brazil, Amazonas

Metarhizium anisopliae sensu
stricto 755

Brazil, Goiás

Beauveria bassiana 737

Brazil, Mato Grosso

Beauveria bassiana 944

Costa Rica

Isaria fumosorosea 3429

France

Beauveria bassiana 1984

Malaysia

Purpureocillium lilacinum 531

Republic of Korea

Beauveria bassiana 6722

Cordyceps sp. 4846

Polycephalomyces ramosus 4858

USA, Puerto Rico

Paecilomyces sp. 7075

Acanthosoma labiduroides

Nepal

Beauveria bassiana 7273

Republic of Korea

Beauveria bassiana 7240 7246

Unidentified / Hyphomycetes

5698

Aelia sp.

Kazakhstan

Isaria farinosa 6493 6497

Verticillium sp. 6500

Turkey

Cylindrocarpon sp. 5758

Uzbekistan

Beauveria bassiana 6093

Isaria farinosa 6097 6098

Dolycorus sp.

Turkey

Aspergillus niger 6407

Aspergillus sp. 6405 6406 6408

Beauveria bassiana 6404 6426

Fusarium sp. 6411

<i>Edessa meditabunda</i> West Indies <i>Purpureocillium lilacinum</i> 10225	<i>Leptocoris oratorius</i> Philippines <i>Beauveria bassiana</i> 1269 1270	<i>Eurygaster integriceps</i> Iran <i>Isaria farinosa</i> 6288
Hemiptera: Scutelleridae		
<i>Euschistus heros</i> Brazil, Goiás <i>Beauveria bassiana</i> 1478	<i>Eurygaster</i> sp. Iran <i>Beauveria bassiana</i> 10353 10354 10355 10356 10357 10358 10359 10360 10361 10362	<i>Corythucha ciliata</i> France <i>Beauveria bassiana</i> 812
<i>Halyomorpha halys</i> USA, New Jersey <i>Fusarium</i> sp. 10311 10312 10313 10388 10389 10390 10391 10309 10310 Unidentified / Hyphomycetes 10386 10387 10392	<i>Isaria</i> sp. 10363 10364 10365 10366 10367 10368 10369 10370 10371 10372 10373 10374 10375 10376 10377 10379 10380 10381 10382 10383 10384 10385	<i>Leptopharsa heveae</i> Brazil, Amazonas <i>Evlachovaea</i> sp. 6638 <i>Lecanicillium aphanocladii(?)</i> 7986
<i>Nezara viridula</i> Argentina <i>Beauveria bassiana</i> 2011 2457 2516	Kazakhstan <i>Isaria farinosa</i> 6481 6490 6495 <i>Purpureocillium lilacinum</i> 6494 6502 <i>Verticillium lecanii</i> 6479 <i>Verticillium</i> sp. 6485	Brazil, Distrito Federal <i>Evlachovaea</i> sp. 6641 <i>Simplicillium lanosoniveum</i> 6642
Brazil <i>Beauveria bassiana</i> 4092 4093	Kyrgyz Republic <i>Beauveria bassiana</i> 8932 10352 <i>Verticillium</i> sp. 6480	Brazil, Mato Grosso <i>Beauveria bassiana</i> 7984 8637 8638 <i>Evlachovaea</i> sp. 6635 6639 6640 <i>Lecanicillium aphanocladii(?)</i> 7985
Brazil, Paraná <i>Beauveria bassiana</i> 1054 <i>Metarhizium anisopliae</i> sensu lato 1055	Republic of Kazakhstan <i>Beauveria bassiana</i> 10351 <i>Isaria</i> sp. 10378	<i>Lecanicillium</i> sp. 8639 <i>Simplicillium lanosoniveum</i> 6636 6637 <i>Tolyphocladium</i> sp. 6634
Brazil, Santa Catarina <i>Beauveria bassiana</i> 1474	Russian Federation <i>Beauveria bassiana</i> 6008 6009 6011 6013 6014 6015 6016 6019 6022 6039 6040 6041 6042 6043	Unidentified / Hyphomycetes 8640
Brazil, São Paulo <i>Paecilomyces</i> sp. 3101	<i>Beauveria brongniartii</i> 6023 <i>Isaria farinosa</i> 6012 6017 6020 6044 <i>Purpureocillium lilacinum</i> 6018 6021 6024 6026 <i>Verticillium lecanii</i> 6010 6025	French Guiana <i>Simplicillium lanosoniveum</i> 6430 6431 6432
India <i>Aspergillus</i> sp. 8280	Syria <i>Aphanocladium album</i> 5756 <i>Beauveria bassiana</i> 5674 6065 6066 6067 6069 6070 6079 6086 6087 6088 6089 6090 6091 6149	<i>Verticillium lecanii</i> 6651
<i>Oebalus poecilus</i> Brazil, Goiás <i>Beauveria bassiana</i> 2191	<i>Fusarium</i> sp. 5682 5755 5757 <i>Lecanicillium muscarium</i> 6118 <i>Lecanicillium psalliotae</i> 5681 5683 5763 5835 6071	Thysanoptera: Phlaeothripidae
<i>Podisus</i> sp. Brazil, Paraná <i>Beauveria bassiana</i> 1457 2519	<i>Purpureocillium lilacinum</i> 6080 6114 6116 <i>Verticillium lecanii</i> 6068 6085	<i>Haplothrips tritici</i> Spain <i>Beauveria bassiana</i> 4200
<i>Scotinophara coarctata</i> Malaysia <i>Purpureocillium lilacinum</i> 763	Turkey 5723 <i>Aspergillus niger</i> 5721 <i>Aspergillus ochraceus</i> 5722 <i>Aspergillus</i> sp. 6399	Unidentified sp. 3990 3991 3992 4201 4202
Philippines <i>Metarhizium anisopliae</i> sensu lato 1432 1548 2341 2342 2343	<i>Beauveria bassiana</i> 5665 5724 5725 5753 5762 10348 10349	<i>Liothrips mikanae</i> Trinidad <i>Hirsutella</i> sp. 4513 4514
<i>Metarhizium pingshaense</i> 1545 Sterile mycelium 1435	<i>Beauveria bassiana</i> (?) 5684	Thysanoptera: Thripidae
<i>Tibraca limbaticollis</i> Brazil <i>Beauveria bassiana</i> 4091	<i>Beauveria</i> sp. 5686 5680 6394 6395 6396 6397 6398 6400 6401 6402 6403 6409 6410 6425 6428 6429	Canada <i>Lecanicillium muscarium</i> 2923
Brazil, Goiás <i>Beauveria bassiana</i> 933 <i>Metarhizium anisopliae</i> sensu lato 1882 1883 2212 2213 2214	<i>Isaria farinosa</i> 5675 5676 5679 <i>Lecanicillium psalliotae</i> 5666	France <i>Lecanicillium longisporum</i> 3701
<i>Purpureocillium lilacinum</i> 2215	Uzbekistan <i>Beauveria bassiana</i> 6056 6060 6072 6073 6076 6083 6115	United Kingdom <i>Verticillium lecanii</i> 6548
Hemiptera: Reduviidae		USA, Vermont <i>Beauveria bassiana</i> 9927
<i>Triatoma infestans</i> Argentina <i>Beauveria bassiana</i> 7147	<i>Purpureocillium lilacinum</i> 6081 6082 6084 6094 6117	<i>Conidiobolus coronatus</i> 6512 9914
<i>Fusarium</i> sp. 7473 <i>Purpureocillium lilacinum</i> 7478	Frankliniella occidentalis <i>Beauveria bassiana</i> 9588	<i>Fusarium</i> sp. 9937 9930 9931 9935 9936
Hemiptera: Rhopalidae		<i>Mariannaea</i> sp. 9932 9933 9934
Kazakhstan <i>Verticillium</i> sp. 6498	<i>Paecilomyces marquandii</i> 9928 9929	<i>Trichoderma</i> sp. 9938
<i>Leptocoris</i> sp. Indonesia, Lombok Island <i>Beauveria bassiana</i> 560	<i>Beauveria</i> sp. 5686 5680 6394 6395 6396 6397 6398 6400 6401 6402 6403 6409 6410 6425 6428 6429	<i>Frankliniella occidentalis</i> <i>Beauveria bassiana</i> 9588
Indonesia, Yogyakarta, Java <i>Beauveria bassiana</i> 566	<i>Isaria farinosa</i> 5675 5676 5679 <i>Lecanicillium psalliotae</i> 5666	<i>Metarhizium anisopliae</i> sensu lato 9591
	<i>Beauveria bassiana</i> 6056 6060 6072 6073 6076 6083 6115	France <i>Lecanicillium lecanii</i> 3683 3688
	<i>Purpureocillium lilacinum</i> 6081 6082 6084 6094 6117	<i>Lecanicillium lecanii(?)</i> 3689 <i>Lecanicillium muscarium</i> 3684 3685 3686 3690 3691
		<i>Lecanicillium muscarium(?)</i> 3687
		Spain <i>Beauveria bassiana</i> 3995 3996
		Unidentified sp. 3993 3994 3997

USA, California	<i>Mariannaea</i> sp. 2930 3315 3316 3317 3549 3554 3555 3557 3558 3559 3562 3563 10152 10153 10194
USA, Florida	<i>Metarhizium anisopliae</i> sensu lato 10135 10136 10137
	<i>Tolyphocladium cylindrospororum</i> 10146
USA, Hawaii	Unidentified sp. 3560
	Unidentified / Hyphomycetes 10191 10282 10283 10284 10285 10286 10292 10293
USA, Vermont	<i>Verticillium</i> sp. 3547 3550 3551 3552 3556 3561
	<i>Thrips calcaratus</i> USA, Wisconsin
<i>Scirtothrips dorsalis</i>	<i>Beauveria pseudobassiana</i> 3216
India	<i>Thrips palmi</i> Trinidad and Tobago
	<i>Hirsutella</i> sp. 4193
<i>Fusarium</i> sp. 7381	USA, Puerto Rico
<i>Taeniothrips inconsequens</i>	<i>Cladosporium cladosporioides</i> 3375
Location not specified	<i>Thrips tabaci</i> Denmark
	<i>Acremonium psammosporum</i> 4062 <i>Acremonium</i> sp. 4063
Unidentified sp. 3319	<i>Lecanicillium lecanii</i> (?) 5580 Unidentified / Hyphomycetes 3142
USA, Connecticut	<i>Verticillium lecanii</i> 5709
	Germany
<i>Hirsutella</i> sp. 3266	<i>Entomophthora thripidum</i> 5868 6517 6518 6519 6520 6521 6522 6525
<i>Mariannaea</i> sp. 3264 3265 3267	Switzerland
3268 3269 3270	<i>Neozygites parvispora</i> 5620 5621
USA, Massachusetts	
<i>Lecanicillium</i> sp. 3259 3260	
<i>Mariannaea</i> sp. 3261 3262 3263	
USA, New Hampshire	
<i>Acremonium bactrocephalum</i> 10169	
<i>Beauveria bassiana</i> 10139	
<i>Lecanicillium fusisporum</i> (?) 10184	
<i>Lecanicillium muscarium</i> 10178	
<i>Lecanicillium psalliotae</i> 10177	
<i>Lecanicillium</i> sp. 10206 10207	
10302 10303 10304 10305 10306	
<i>Mariannaea</i> sp. 3258 10185 10204	
10205	
Unidentified / Hyphomycetes	
10307	
USA, New Jersey	
Unidentified sp. 3256	
USA, New York	
<i>Isaria</i> sp. 10162	
<i>Lecanicillium psalliotae</i> 10170	
<i>Lecanicillium</i> sp. 10154	
<i>Mariannaea</i> sp. 3257 10150 10151	
USA, Pennsylvania	
<i>Lecanicillium</i> sp. 3253 3254 3255	
<i>Mariannaea</i> sp. 3252	
USA, Vermont	
<i>Acremonium bactrocephalum</i> 10166	
10167 10168	
<i>Beauveria bassiana</i> 10138 10140	
10143 10144 10145 10147 10148	
<i>Hirsutella</i> sp. 2939 2940 3318 3546	
3548 3553	
<i>Isaria farinosa</i> 3564 10155 10157	
10158 10159 10161	
<i>Isaria</i> sp. 10231 10232 10233	
<i>Lecanicillium psalliotae</i> 10175	
10176 10180 10181 10182	
<i>Lecanicillium psalliotae</i> (?) 10183	
<i>Lecanicillium</i> sp. 10187 10188	
10189 10190 10192 10193 10195	
10196 10197 10198 10199 10200	
10201 10202 10203 10208 10209	
10210 10211 10212 10213 10214	
10287 10288 10289 10290 10291	
10294 10295 10296 10297 10298	
10299 10300 10301	

Geographical Origin

Argentina
Poland

Argentina

- Córdoba
 Beauveria bassiana 7147
- La Rioja
 Fusarium sp. 7473
- Santiago del Estero
 Purpureocillium lilacinum 7478
- Tucumán
 Beauveria bassiana 2011 2457 2516

Australia

- New South Wales
 Beauveria bassiana 300

Austria

- Burgenland
 Beauveria bassiana 1533 1534 1535
 1536 1537 1538 1539 1540 1635 1636
 1637 1638 1640 1643 1973 1974 1988
- Fusarium* sp. 1641
- Trichothecium roseum* 1639 1642

Brazil

- Beauveria bassiana* 4091 4092 4093
- Amazonas
 Evlachovaea sp. 6638
- Lecanicillium aphanocladii*(?) 7986
- Metarhizium anisopliae* sensu stricto 755
- Distrito Federal
 Evlachovaea sp. 6641
- Simplicillium lanosoniveum* 6642
- Goiás
 Beauveria bassiana 737 933 1478 2191
- Metarhizium anisopliae* sensu lato 1882 1883 2212 2213 2214
- Metarhizium pingshaense* 1448
- Metarhizium robertsii* 1952
- Purpureocillium lilacinum* 2215
- Mato Grosso
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- Evlachovaea* sp. 6635 6639 6640
- Lecanicillium aphanocladii*(?) 7985
- Lecanicillium* sp. 8639
- Simplicillium lanosoniveum* 6636
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- Tolyphocladium* sp. 6634
- Unidentified / Hyphomycetes 8640
- Paraná
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- Metarhizium anisopliae* sensu lato 1055
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Denmark

- Lecanicillium lecanii*(?) 5580
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- Zealand
 Acremonium psammosporum 4062
- Acremonium* sp. 4063
- Beauveria bassiana* 8025 8026 8027
 8028 8029 8030 8036
- Unidentified / Hyphomycetes 3142

France

- Beauveria bassiana* 1319 1320 1321
 1322 1323 1324 1325 1396 1397 1404
 1405 1406 1407 1408 1409 1410 1411
 1412 1413 1414 1516 1517 1523 1524
 1792 1793 1794
- Charente
 Beauveria bassiana 1648
- Drôme
 Beauveria bassiana 1649 1795 1984
- Essonne
 Beauveria bassiana 2318 2319
- Gard
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 Lecanicillium longisporum 3701
 Lecanicillium muscarium 3684 3685
 3686 3690 3691
 Lecanicillium muscarium(?) 3687
- Haute-Savoie
 Beauveria bassiana 1317 1318 1394
 1796 1797 1798 1799
- Pyrénées-Orientales
 Beauveria bassiana 1520 1521
- Seine-Saint-Denis
 Beauveria bassiana 1395 1650
- Vaucluse
 Beauveria bassiana 812
- Vosges
 Beauveria bassiana 1789 1790 1791
- Yvelines
 Beauveria bassiana 1800 1801 2320
 2321 2322 2458 2461 2462

French Guiana

- Simplicillium lanosoniveum* 6430
 6431 6432
- Verticillium lecanii* 6651

Germany

- Braunschweig
 Entomophthora thripidum 5868 6517
 6518 6519 6520 6521 6522 6525
- Greece
 Beauveria bassiana 1802 1803 1812
 1822

India

- Bihar
 Aspergillus sp. 8280
- Karnataka
 Fusarium sp. 7381
- Tamil Nadu
 Fusarium subglutinans 2143 2144

Indonesia

- Jawa Barat, Java
 2132
- Lombok Island
 Beauveria bassiana 560
- Yogyakarta, Java
 Beauveria bassiana 566

Iran

- Beauveria bassiana* 10353 10354
 10355 10356 10357 10358 10359
 10360 10361 10362
- Isaria* sp. 10363 10364 10365 10366
 10367 10368 10369 10370 10371
 10372 10373 10374 10375 10376
 10377 10379 10380 10381 10382
 10383 10384 10385
- Esfahan
 Isaria farinosa 6288

Italy

- Lazio
 Beauveria sp. 1195 1196 1197 1198
 1201 1202 1203 1204 1205 1206 1207
 1209 1210 1211 1213 1214 1215 1216
 1218 1219 1220 1221 1222 1224
- Fusarium* sp. 1307
- Trichothecium roseum* 1212 1226 1308
- Trichothecium* sp. 1217 1223
- Toscana
 Beauveria bassiana 1525 1526 1527
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- Beauveria* sp. 1199 1200 1208
- Umbria
 Beauveria bassiana 1529 1531
 Isaria fumosorosea 1530 1532

Kazakhstan

- Isaria farinosa* 6481 6490 6493 6495
 6496 6497
- Purpureocillium lilacinum* 6494 6502
- Verticillium lecanii* 6479
- Verticillium* sp. 6485 6498 6500

Kyrgyz Republic

- Beauveria bassiana* 8932 10352
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Malaysia

- Purpureocillium lilacinum* 531
- Wellesley Province
 Purpureocillium lilacinum 763

Nepal

- Beauveria bassiana* 7273

Philippines

- Misamis Oriental
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- Palawan
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- Metarhizium anisopliae* sensu lato
 1432 1548 2341 2342 2343
- Metarhizium pingshaense* 1545
- Sterile mycelium 1435

Poland

- Unidentified sp. 1423

Republic of Kazakhstan

Beauveria bassiana 10351
Isaria sp. 10378

Republic of Korea

Beauveria bassiana 6722
Polycephalomyces ramosus 4858
Chungnam Province
Beauveria bassiana 7240
Unidentified / Hyphomycetes 5698
Gyeonggi Province
Cordyceps sp. 4846
Kangwon-do
Beauveria bassiana 7246

Russian Federation

Beauveria bassiana 6008 6019
Purpureocillium lilacinum 6018
Verticillium lecanii 6010
Rostov
Beauveria bassiana 6009 6011 6013
6014 6015 6016 6022 6039 6040 6041
6042 6043
Beauveria brongniartii 6023
Isaria farinosa 6012 6017 6020 6044
Purpureocillium lilacinum 6021 6024
6026
Verticillium lecanii 6025

South Africa

Cape Province
Isaria farinosa 6607

Spain

Beauveria bassiana 886 1804 1805
1806 1807 1808 1809 1810 1813
1814
Murcia
Beauveria bassiana 3995 3996 4200
Unidentified sp. 3990 3991 3992 3993
3994 3997 4201 4202

Switzerland

Furia virescens 394
Zoophthora anglica 916 926
Zoophthora radicans 389
Zurich
Neozygites parvispora 5620 5621

Syria

Aphanocladium album 5756
Beauveria bassiana 6065 6066 6067
6069 6070 6079 6086 6087 6088 6089
6090 6091 6149
Fusarium sp. 5755 5757
Lecanicillium muscarium 6118
*Lecanicillium psalliota*e 6071
Purpureocillium lilacinum 6080 6114
6116
Verticillium lecanii 6068 6085
Halab
Beauveria bassiana 5674
Fusarium sp. 5682
*Lecanicillium psalliota*e 5681 5683
5763 5835

Trinidad

Hirsutella sp. 4513 4514

Trinidad and Tobago

Hirsutella sp. 4193

Turkey

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Beauveria bassiana 6426 10348 10349
Fusarium sp. 6411
Adiyaman
Aspergillus sp. 6405 6406 6408
Beauveria bassiana 6404
Ankara
Aspergillus sp. 6399
Fusarium sp. 6394 6397 6403 6410
6425

Gaziantep

Aspergillus niger 5721
Aspergillus ochraceus 5722
Beauveria bassiana 5725
Beauveria bassiana(?) 5684
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Isaria farinosa 5675
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Kahraman Maras
Beauveria bassiana 5665 5724 5753
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Cylindrocarpon sp. 5758
Fusarium sp. 5680
Isaria farinosa 5676 5679
*Lecanicillium psalliota*e 5666

Kirsehir

Fusarium sp. 6428
Nigde
Fusarium sp. 6395 6398 6400 6409
6429
Yozgat
Fusarium sp. 6396 6401 6402

United Kingdom

Verticillium lecanii 6548

USA

Arkansas
Beauveria bassiana 3769
Pandora heteropterae 9266
California
Beauveria bassiana 6660 6661 9587
Connecticut
Hirsutella sp. 3266
Mariannaea sp. 3264 3265 3267 3268
3269 3270
Florida
Beauveria bassiana 320 3086 5978
Conidiobolus coronatus 3222
Hawaii
Acremonium(?) sp. 7031
Beauveria bassiana 8706
Kansas
Beauveria bassiana 792 2430
Massachusetts
Lecanicillium sp. 3259 3260
Mariannaea sp. 3261 3262 3263
Mississippi
Beauveria bassiana 8317 8889
New Hampshire
Acremonium bactrocephalum 10169
Beauveria bassiana 10139
Lecanicillium fusisporum(?) 10184

Lecanicillium muscarium 10178
*Lecanicillium psalliota*e 10177
Lecanicillium sp. 10206 10207 10302
10303 10304 10305 10306
Mariannaea sp. 3258 10185 10204
10205
Unidentified / Hyphomycetes 10307
New Jersey
Fusarium sp. 10311 10312 10313
10388 10389 10390 10391
Scopulariopsis sp. 10309 10310
Unidentified sp. 3256
Unidentified / Hyphomycetes 10386
10387 10392
New York
Beauveria bassiana 5808
Isaria sp. 10162
*Lecanicillium psalliota*e 10170
Lecanicillium sp. 10154
Mariannaea sp. 3257 10150 10151
Pandora delphacis 3062
Pandora neoaphidis 1570
Pennsylvania
Lecanicillium sp. 3253 3254 3255
Mariannaea sp. 3252
Puerto Rico
Cladosporium cladosporioides 3375
Paecilomyces sp. 7075
Vermont
Acremonium bactrocephalum 10166
10167 10168
Beauveria bassiana 9927 10138 10140
10143 10144 10145 10147 10148
Conidiobolus coronatus 6512 9914
Fusarium sp. 9937
Hirsutella sp. 2939 2940 3318 3546
3548 3553
Isaria farinosa 3564 10155 10157
10158 10159 10161
Isaria sp. 10231 10232 10233
*Lecanicillium psalliota*e 10175 10176
10180 10181 10182
*Lecanicillium psalliota*e(?) 10183
Lecanicillium sp. 9930 9931 9935 9936
10187 10188 10189 10190 10192
10193 10195 10196 10197 10198
10199 10200 10201 10202 10203
10208 10209 10210 10211 10212
10213 10214 10287 10288 10289
10290 10291 10294 10295 10296
10297 10298 10299 10300 10301
Mariannaea sp. 2930 3315 3316 3317
3549 3554 3555 3557 3558 3559 3562
3563 9932 9933 9934 10152 10153
10194
Metarhizium anisopliae sensu lato
10135 10136 10137
Paecilomyces marquandii 9928 9929
Tolypocladium cylindrosporum 10146
Trichoderma sp. 9938
Unidentified sp. 3560 3570
Unidentified / Hyphomycetes 6504
10191 10282 10283 10284 10285
10286 10292 10293
Verticillium sp. 3547 3550 3551 3552
3556 3561

Geographical Origin

Wisconsin

Beauveria pseudobassiana 3216

Uzbekistan

Beauveria bassiana 6056 6060 6072

6073 6076 6083 6093 6115

Isaria farinosa 6097 6098

Purpureocillium lilacinum 6081 6082

6084 6094 6117

West Indies

Trinidad

Purpureocillium lilacinum 10225

Alternate Collections

Alves, Sergio Batista

- 256 *Beauveria bassiana* 1478
- ESALQ 1224 *Tolyphocladium* sp. 6634
- ESALQ 1225 *Evlachovaea* sp. 6635
- ESALQ 1226 *Simplicillium lanosum* 6636
- ESALQ 1227 *Simplicillium lanosum* 6637
- ESALQ 1228 *Evlachovaea* sp. 6638
- ESALQ 1229 *Evlachovaea* sp. 6639
- ESALQ 1230 *Evlachovaea* sp. 6640
- ESALQ 1235 *Evlachovaea* sp. 6641
- ESALQ 1237 *Simplicillium lanosum* 6642

ARSEF

- 2381 (never frozen) *Metarhizium anisopliae* sensu lato 2341
- 2383 (never frozen) *Metarhizium anisopliae* sensu lato 2341
- 2384 (never frozen) *Metarhizium anisopliae* sensu lato 2342
- 2385 (never frozen) *Metarhizium anisopliae* sensu lato 2343
- 7984 *Beauveria bassiana* 8638
- 7985 Unidentified / Hyphomycetes 8640
- 8638 *Beauveria bassiana* 7984
- 8640 *Lecanicillium aphanocladii*(?) 7985

Balazy, Stanislaw

- 1508m Unidentified sp. 1423

Broadbent, A. Bruce

- BB008 *Beauveria bassiana* 5808

Brownbridge, Michael

- A *Mariannaea* sp. 3252
- B *Lecanicillium* sp. 3253
- C *Lecanicillium* sp. 3254
- D *Lecanicillium* sp. 3255
- DT-122 *Mariannaea* sp. 3315
- E Unidentified sp. 3256
- F *Mariannaea* sp. 3257
- F1.2 *Lecanicillium lecanii* 3683
- F10 *Lecanicillium muscarium* 3691
- F2.3 *Lecanicillium muscarium* 3684
- F3.1 *Lecanicillium muscarium* 3685
- F4 *Lecanicillium muscarium* 3686
- F5 *Lecanicillium muscarium*(?) 3687
- F6 *Lecanicillium lecanii* 3688
- F7 *Lecanicillium lecanii*(?) 3689
- F9 *Lecanicillium muscarium* 3690
- G *Mariannaea* sp. 3258
- I *Lecanicillium* sp. 3259
- J *Lecanicillium* sp. 3260
- K *Mariannaea* sp. 3261
- L *Mariannaea* sp. 3262
- M *Mariannaea* sp. 3263
- N *Mariannaea* sp. 3264
- O *Mariannaea* sp. 3265
- P *Hirsutella* sp. 3266
- Perry 1 *Hirsutella* sp. 3318
- Perry 2 *Mariannaea* sp. 3317
- Perry 3 Unidentified sp. 3319
- Q *Mariannaea* sp. 3267
- R *Mariannaea* sp. 3268
- R-11 *Mariannaea* sp. 3549
- R-12 *Verticillium* sp. 3550

R-13 *Verticillium* sp. 3551

- R-14 *Verticillium* sp. 3552
- R-15 *Hirsutella* sp. 3553
- R-20.1 *Mariannaea* sp. 3554
- R-22 *Verticillium* sp. 3556
- R-23 *Mariannaea* sp. 3557
- R-25 *Mariannaea* sp. 3558
- R-27 *Mariannaea* sp. 3559
- R-28 Unidentified sp. 3560
- R-29 *Verticillium* sp. 3561
- R-31 *Mariannaea* sp. 3562
- R-34 *Mariannaea* sp. 3563
- R-38 *Isaria farinosa* 3564
- R-4 *Hirsutella* sp. 3546
- R-6 *Verticillium* sp. 3547
- R-9 *Hirsutella* sp. 3548
- S *Mariannaea* sp. 3269
- T *Mariannaea* sp. 3270
- WFT-3 Unidentified sp. 3570
- Williams *Mariannaea* sp. 3316

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- 13 *Beauveria bassiana* 3449
- 18 *Beauveria bassiana* 3454
- 20 *Beauveria bassiana* 3456

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- CG 422 *Lecanicillium aphanocladii*(?) 7985
- CG 422 Unidentified / Hyphomycetes 8640
- CG 826 *Lecanicillium* sp. 8639
- CG 882 *Beauveria bassiana* 8637
- CG 883 *Beauveria bassiana* 7984
- CG 883 *Beauveria bassiana* 8638

CEP

- 071 *Purpureocillium lilacinum* 7478
- 134 *Fusarium* sp. 7473

Chandler, David

- HRI 53.81 *Verticillium lecanii* 6548

CNPAF

- 82-1-26-01 *Beauveria bassiana* 737
- 82-12-20-02 *Beauveria bassiana* 933
- 82-4-5-01 *Metarhizium anisopliae* sensu stricto 755
- 83-03-16F *Beauveria bassiana* 944
- 83-12-27 *Metarhizium pingshaense* 1448
- 84-03-28-1A *Beauveria bassiana* 1457
- 84-04-02-1A *Beauveria bassiana* 1474
- 85-7-21 *Metarhizium robertsii* 1952
- 86-06-05-2 *Purpureocillium lilacinum* 2215
- 86-06-05-7 *Metarhizium anisopliae* sensu lato 2214
- 86-06-05-8 *Metarhizium anisopliae* sensu lato 2213
- 86-06-05-9 *Metarhizium anisopliae* sensu lato 2212
- 86-3-26 *Beauveria bassiana* 2191

CNPS

- 15 *Beauveria bassiana* 1054
- 19 *Metarhizium anisopliae* sensu lato 1055

CP

- 122 *Metarhizium pingshaense* 1448
- 147 *Beauveria bassiana* 1457
- 164 *Beauveria bassiana* 1474
- 171 *Metarhizium anisopliae* sensu lato 1882
- 172 *Metarhizium anisopliae* sensu lato 1883
- 177 *Metarhizium robertsii* 1952
- 20 *Beauveria bassiana* 737
- 201 *Beauveria bassiana* 2191
- 208 *Metarhizium anisopliae* sensu lato 2212
- 209 *Metarhizium anisopliae* sensu lato 2213
- 210 *Metarhizium anisopliae* sensu lato 2214
- 211 *Purpureocillium lilacinum* 2215
- 223 *Beauveria bassiana* 2519
- 228 *Beauveria bassiana* 2516
- 39 *Metarhizium anisopliae* sensu stricto 755
- 71 *Beauveria bassiana* 933
- 85 *Beauveria bassiana* 944

David, H.

- 8 *Fusarium subglutinans* 2143
- 9 *Fusarium subglutinans* 2144

Erkiliç, Lerzan

- Belen-1 *Aspergillus niger* 5721
- Hursit Dagi-1 *Beauveria bassiana* 5725
- Karadag-1 *Aspergillus ochraceus* 5722
- Karadag-2 Unidentified 5723
- Pazarcik/Karabiyikli-1 *Beauveria bassiana* 5724

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- 1055 *Metarhizium anisopliae* sensu lato 9591
- 1744 *Beauveria bassiana* 9587
- 1745 *Beauveria bassiana* 9588
- 1747 *Conidiobolus coronatus* 9914
- 1771 *Beauveria bassiana* 9927
- 1772 *Paecilomyces marquandii* 9928
- 1773 *Paecilomyces marquandii* 9929
- 1774 *Lecanicillium* sp. 9930
- 1775 *Lecanicillium* sp. 9931
- 1776 *Mariannaea* sp. 9932
- 1777 *Mariannaea* sp. 9933
- 1778 *Mariannaea* sp. 9934
- 1779 *Lecanicillium* sp. 9935
- 1780 *Lecanicillium* sp. 9936
- 1782 *Fusarium* sp. 9937
- 1785 *Trichoderma* sp. 9938
- 1795 *Metarhizium anisopliae* sensu lato 10135
- 1796 *Metarhizium anisopliae* sensu lato 10136
- 1797 *Metarhizium anisopliae* sensu lato 10137
- 1798 *Beauveria bassiana* 10138
- 1799 *Beauveria bassiana* 10139
- 1800 *Beauveria bassiana* 10140
- 1803 *Beauveria bassiana* 10143
- 1804 *Beauveria bassiana* 10144
- 1805 *Beauveria bassiana* 10145

1806	<i>Tolyocladium cylindrosporum</i>	
10146		
1807	<i>Beauveria bassiana</i>	10147
1808	<i>Beauveria bassiana</i>	10148
1810	<i>Mariannaea</i> sp.	10150
1811	<i>Mariannaea</i> sp.	10151
1812	<i>Mariannaea</i> sp.	10152
1813	<i>Mariannaea</i> sp.	10153
1814	<i>Lecanicillium</i> sp.	10154
1815	<i>Isaria farinosa</i>	10155
1817	<i>Isaria farinosa</i>	10157
1818	<i>Isaria farinosa</i>	10158
1819	<i>Isaria farinosa</i>	10159
1821	<i>Isaria farinosa</i>	10161
1822	<i>Isaria</i> sp.	10162
1828	<i>Acremonium bactrocephalum</i>	10166
1829	<i>Acremonium bactrocephalum</i>	10167
1830	<i>Acremonium bactrocephalum</i>	10168
1831	<i>Acremonium bactrocephalum</i>	10169
1842	<i>Lecanicillium psalliotae</i>	10170
1854	<i>Lecanicillium psalliotae</i>	10175
1855	<i>Lecanicillium psalliotae</i>	10176
1856	<i>Lecanicillium psalliotae</i>	10177
1857	<i>Lecanicillium muscarium</i>	10178
1859	<i>Lecanicillium psalliotae</i>	10180
1860	<i>Lecanicillium psalliotae</i>	10181
1861	<i>Lecanicillium psalliotae</i>	10182
1862	<i>Lecanicillium psalliotae(?)</i>	10183
1863	<i>Lecanicillium fusisporum(?)</i>	10184
1864	<i>Mariannaea</i> sp.	10185
1865	<i>Lecanicillium</i> sp.	10187
1866	<i>Lecanicillium</i> sp.	10188
1867	<i>Lecanicillium</i> sp.	10189
1868	<i>Lecanicillium</i> sp.	10190
1869	Unidentified / Hyphomycetes	
10191		
1870	<i>Lecanicillium</i> sp.	10192
1871	<i>Lecanicillium</i> sp.	10193
1872	<i>Mariannaea</i> sp.	10194
1873	<i>Lecanicillium</i> sp.	10195
1874	<i>Lecanicillium</i> sp.	10196
1875	<i>Lecanicillium</i> sp.	10197
1876	<i>Lecanicillium</i> sp.	10198
1877	<i>Lecanicillium</i> sp.	10199
1878	<i>Lecanicillium</i> sp.	10200
1879	<i>Lecanicillium</i> sp.	10201
1880	<i>Lecanicillium</i> sp.	10202
1881	<i>Lecanicillium</i> sp.	10203
1882	<i>Mariannaea</i> sp.	10204
1883	<i>Mariannaea</i> sp.	10205
1884	<i>Lecanicillium</i> sp.	10206
1885	<i>Lecanicillium</i> sp.	10207
1886	<i>Lecanicillium</i> sp.	10208
1887	<i>Lecanicillium</i> sp.	10209
1888	<i>Lecanicillium</i> sp.	10210
1889	<i>Lecanicillium</i> sp.	10211
189	<i>Beauveria bassiana</i>	10348
1890	<i>Lecanicillium</i> sp.	10212
1891	<i>Lecanicillium</i> sp.	10213
1892	<i>Lecanicillium</i> sp.	10214
1897	<i>Isaria</i> sp.	10231
1898	<i>Isaria</i> sp.	10232
1899	<i>Isaria</i> sp.	10233
190	<i>Beauveria bassiana</i>	10349
1927	Unidentified / Hyphomycetes	
10282		
1928	Unidentified / Hyphomycetes	
10283		
1929	Unidentified / Hyphomycetes	
10284		
1930	Unidentified / Hyphomycetes	
10285		
1931	Unidentified / Hyphomycetes	
10286		
1932	<i>Lecanicillium</i> sp.	10287
1933	<i>Lecanicillium</i> sp.	10288
1934	<i>Lecanicillium</i> sp.	10289
1935	<i>Lecanicillium</i> sp.	10290
1936	<i>Lecanicillium</i> sp.	10291
1937	Unidentified / Hyphomycetes	
10292		
1938	Unidentified / Hyphomycetes	
10293		
1939	<i>Lecanicillium</i> sp.	10294
1940	<i>Lecanicillium</i> sp.	10295
1941	<i>Lecanicillium</i> sp.	10296
1942	<i>Lecanicillium</i> sp.	10297
1943	<i>Lecanicillium</i> sp.	10298
1944	<i>Lecanicillium</i> sp.	10299
1945	<i>Lecanicillium</i> sp.	10300
1946	<i>Lecanicillium</i> sp.	10301
1947	<i>Lecanicillium</i> sp.	10302
1948	<i>Lecanicillium</i> sp.	10303
1949	<i>Lecanicillium</i> sp.	10304
1950	<i>Lecanicillium</i> sp.	10305
1951	<i>Lecanicillium</i> sp.	10306
1952	Unidentified / Hyphomycetes	
10307		
1954	<i>Scopulariopsis</i> sp.	10309
1955	<i>Scopulariopsis</i> sp.	10310
1956	<i>Fusarium</i> sp.	10311
1957	<i>Fusarium</i> sp.	10312
1958	<i>Fusarium</i> sp.	10313
1959	Unidentified / Hyphomycetes	
10386		
1960	Unidentified / Hyphomycetes	
10387		
1961	<i>Fusarium</i> sp.	10388
1962	<i>Fusarium</i> sp.	10389
1963	<i>Fusarium</i> sp.	10390
1964	<i>Fusarium</i> sp.	10391
1965	Unidentified / Hyphomycetes	
10392		
390	<i>Isaria</i> sp.	10363
391	<i>Isaria</i> sp.	10364
392	<i>Isaria</i> sp.	10365
393	<i>Isaria</i> sp.	10366
394	<i>Isaria</i> sp.	10367
395	<i>Isaria</i> sp.	10368
396	<i>Isaria</i> sp.	10369
397	<i>Isaria</i> sp.	10370
398	<i>Isaria</i> sp.	10371
399	<i>Isaria</i> sp.	10372
400	<i>Isaria</i> sp.	10373
401	<i>Isaria</i> sp.	10374
402	<i>Isaria</i> sp.	10375
403	<i>Isaria</i> sp.	10376
404	<i>Isaria</i> sp.	10377
418	<i>Beauveria bassiana</i>	6016
487	<i>Beauveria bassiana</i>	10351
499	<i>Beauveria bassiana</i>	8932
527	<i>Isaria</i> sp.	10378
533	<i>Beauveria bassiana</i>	10352
536	<i>Beauveria bassiana</i>	10353
537	<i>Beauveria bassiana</i>	10354
538	<i>Beauveria bassiana</i>	10355
539	<i>Beauveria bassiana</i>	10356
540	<i>Isaria</i> sp.	10379
543	<i>Beauveria bassiana</i>	10357
548	<i>Isaria</i> sp.	10380
549	<i>Isaria</i> sp.	10381
553	<i>Beauveria bassiana</i>	10358
554	<i>Isaria</i> sp.	10382
556	<i>Isaria</i> sp.	10383
557	<i>Beauveria bassiana</i>	10359
558	<i>Beauveria bassiana</i>	10360
561	<i>Isaria</i> sp.	10384
563	<i>Beauveria bassiana</i>	10361
566	<i>Beauveria bassiana</i>	10362
571	<i>Isaria</i> sp.	10385
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I88-399 <i>Hirsutella</i> sp.		
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ETH 603 <i>Entomophthora thripidum</i> 6518		
ETH 604 <i>Entomophthora thripidum</i> 6519		
ETH 605 <i>Entomophthora thripidum</i> 6520		
ETH 606 <i>Entomophthora thripidum</i> 6525		
ETH 607 <i>Entomophthora thripidum</i> 6521		
ETH 608 <i>Entomophthora thripidum</i> 6522		
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SB-10-10 <i>Fusarium</i> sp.		
SB-10-12 Unidentified / Hyphomycetes 10392		
SB-10-2 <i>Scopulariopsis</i> sp.		
SB-10-4 <i>Fusarium</i> sp.		
SB-10-6 Unidentified / Hyphomycetes 10386		
SB-10-8 <i>Fusarium</i> sp.		
Thr.-09-10 <i>Mariannaea</i> sp.		
Thr.-09-12 <i>Lecanicillium</i> sp.		
Thr.-09-14 <i>Fusarium</i> sp.		
Thr.-09-4 <i>Paecilomyces marquandii</i> 9928		
Thr.-09-6 <i>Lecanicillium</i> sp.		
Thr.-09-8 <i>Mariannaea</i> sp.		
Thr.-10-1 <i>Beauveria bassiana</i> 10138		
Thr.-10-100 <i>Lecanicillium</i> sp.		
Thr.-10-105 <i>Isaria</i> sp.		
Thr.-10-106 <i>Isaria</i> sp.		
Thr.-10-107 <i>Isaria</i> sp.		
Thr.-10-11 <i>Beauveria bassiana</i> 10148		
Thr.-10-133 Unidentified / Hyphomycetes 10282		
Thr.-10-135 Unidentified / Hyphomycetes 10284		
Thr.-10-136 Unidentified / Hyphomycetes 10285		

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- Thr.-10-138 *Lecanicillium* sp. 10287
 Thr.-10-139 *Lecanicillium* sp. 10288
 Thr.-10-14 *Metarhizium anisopliae* sensu lato 10136
 Thr.-10-141 *Lecanicillium* sp. 10290
 Thr.-10-142 *Lecanicillium* sp. 10291
 Thr.-10-144 Unidentified / Hyphomycetes 10293
 Thr.-10-145 *Lecanicillium* sp. 10294
 Thr.-10-147 *Lecanicillium* sp. 10296
 Thr.-10-148 *Lecanicillium* sp. 10297
 Thr.-10-150 *Lecanicillium* sp. 10299
 Thr.-10-151 *Lecanicillium* sp. 10300
 Thr.-10-153 *Lecanicillium* sp. 10302
 Thr.-10-154 *Lecanicillium* sp. 10303
 Thr.-10-156 *Lecanicillium* sp. 10305
 Thr.-10-157 *Lecanicillium* sp. 10306
 Thr.-10-16 *Lecanicillium* sp. 10154
 Thr.-10-20 *Isaria farinosa* 10158
 Thr.-10-24 *Isaria* sp. 10162
 Thr.-10-28 *Mariannaea* sp. 10150
 Thr.-10-3 *Beauveria bassiana* 10140
 Thr.-10-30 *Mariannaea* sp. 10152
 Thr.-10-36 *Acremonium bactrocephalum* 10166
 Thr.-10-38 *Acremonium bactrocephalum* 10168
 Thr.-10-50 *Lecanicillium psalliotae* 10170
 Thr.-10-62 *Lecanicillium psalliotae* 10175
 Thr.-10-64 *Lecanicillium psalliotae* 10177
 Thr.-10-68 *Lecanicillium psalliotae* 10181
 Thr.-10-7 *Beauveria bassiana* 10144
 Thr.-10-70 *Lecanicillium psalliotae(?)* 10183
 Thr.-10-72 *Mariannaea* sp. 10185
 Thr.-10-73 *Lecanicillium* sp. 10187
 Thr.-10-75 *Lecanicillium* sp. 10189
 Thr.-10-77 Unidentified / Hyphomycetes 10191
 Thr.-10-79 *Lecanicillium* sp. 10193
 Thr.-10-81 *Lecanicillium* sp. 10195
 Thr.-10-83 *Lecanicillium* sp. 10197
 Thr.-10-85 *Lecanicillium* sp. 10199
 Thr.-10-87 *Lecanicillium* sp. 10201
 Thr.-10-89 *Lecanicillium* sp. 10203
 Thr.-10-9 *Tolyocladium cylindrospororum* 10146
 Thr.-10-91 *Mariannaea* sp. 10205
 Thr.-10-93 *Lecanicillium* sp. 10207
 Thr.-10-94 *Lecanicillium* sp. 10208
 Thr.-10-96 *Lecanicillium* sp. 10210
 Thr.-10-98 *Lecanicillium* sp. 10212
- Gouli, Vladimir**
 GA-347 Unidentified / Hyphomycetes 6504
 GA-361 *Conidiobolus coronatus* 6512
 SB-10-1 *Scopulariopsis* sp. 10309
 SB-10-11 *Fusarium* sp. 10391
 SB-10-3 *Fusarium* sp. 10311
 SB-10-5 *Fusarium* sp. 10313
 SB-10-7 Unidentified / Hyphomycetes 10387
- SB-10-9 *Fusarium* sp. 10389
 SP-174 *Beauveria bassiana* 6016
 SPT-R-134 *Beauveria bassiana* 6008
 SPT-R-145 *Beauveria bassiana* 6009
 SPT-R-148 *Beauveria bassiana* 6039
 SPT-R-151 *Verticillium lecanii* 6010
 SPT-R-152 *Beauveria bassiana* 6040
 SPT-R-153 *Beauveria bassiana* 6041
 SPT-R-158 *Beauveria bassiana* 6042
 SPT-R-159 *Beauveria bassiana* 6011
 SPT-R-160 *Isaria farinosa* 6012
 SPT-R-161 *Beauveria bassiana* 6043
 SPT-R-162 *Beauveria bassiana* 6013
 SPT-R-170 *Beauveria bassiana* 6014
 SPT-R-171 *Beauveria bassiana* 6015
 SPT-R-172 *Isaria farinosa* 6044
 SPT-R-175 *Isaria farinosa* 6017
 SPT-R-183 *Purpureocillium lilacinum* 6018
 SPT-R-184 *Beauveria bassiana* 6019
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 SPT-R-206 *Purpureocillium lilacinum* 6024
 SPT-R-215 *Verticillium lecanii* 6025
 SPT-R-246 *Purpureocillium lilacinum* 6026
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 Thr.-09-17 *Trichoderma* sp. 9938
 Thr.-09-2 *Conidiobolus coronatus* 9914
 Thr.-09-3 *Beauveria bassiana* 9927
 Thr.-09-5 *Paecilomyces marquandii* 9929
 Thr.-09-7 *Lecanicillium* sp. 9931
 Thr.-09-9 *Mariannaea* sp. 9933
 Thr.-10-10 *Beauveria bassiana* 10147
 Thr.-10-13 *Metarhizium anisopliae* sensu lato 10135
 Thr.-10-134 Unidentified / Hyphomycetes 10283
 Thr.-10-137 Unidentified / Hyphomycetes 10286
 Thr.-10-140 *Lecanicillium* sp. 10289
 Thr.-10-143 Unidentified / Hyphomycetes 10292
 Thr.-10-146 *Lecanicillium* sp. 10295
 Thr.-10-149 *Lecanicillium* sp. 10298
 Thr.-10-15 *Metarhizium anisopliae* sensu lato 10137
 Thr.-10-152 *Lecanicillium* sp. 10301
 Thr.-10-155 *Lecanicillium* sp. 10304
 Thr.-10-158 Unidentified / Hyphomycetes 10307
 Thr.-10-17 *Isaria farinosa* 10155
 Thr.-10-19 *Isaria farinosa* 10157
 Thr.-10-2 *Beauveria bassiana* 10139
 Thr.-10-21 *Isaria farinosa* 10159
 Thr.-10-23 *Isaria farinosa* 10161
 Thr.-10-29 *Mariannaea* sp. 10151
 Thr.-10-31 *Mariannaea* sp. 10153
 Thr.-10-37 *Acremonium bactrocephalum* 10167
 Thr.-10-39 *Acremonium bactrocephalum* 10169
- Thr.-10-6 *Beauveria bassiana* 10143
 Thr.-10-63 *Lecanicillium psalliotae* 10176
 Thr.-10-65 *Lecanicillium muscarium* 10178
 Thr.-10-67 *Lecanicillium psalliotae* 10180
 Thr.-10-69 *Lecanicillium psalliotae* 10182
 Thr.-10-71 *Lecanicillium fusisporum(?)* 10184
 Thr.-10-74 *Lecanicillium* sp. 10188
 Thr.-10-76 *Lecanicillium* sp. 10190
 Thr.-10-78 *Lecanicillium* sp. 10192
 Thr.-10-8 *Beauveria bassiana* 10145
 Thr.-10-80 *Mariannaea* sp. 10194
 Thr.-10-82 *Lecanicillium* sp. 10196
 Thr.-10-84 *Lecanicillium* sp. 10198
 Thr.-10-86 *Lecanicillium* sp. 10200
 Thr.-10-88 *Lecanicillium* sp. 10202
 Thr.-10-90 *Mariannaea* sp. 10204
 Thr.-10-92 *Lecanicillium* sp. 10206
 Thr.-10-95 *Lecanicillium* sp. 10209
 Thr.-10-97 *Lecanicillium* sp. 10211
 Thr.-10-99 *Lecanicillium* sp. 10213
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 302 *Neozygites parvispora* 5621
 ETH 601 *Entomophthora thripidum* 5868
- Hatting, Justin L.**
 Sample B *Isaria farinosa* 6607
- Hodge, Kathie T.**
 PR16 *Paecilomyces* sp. 7075
- Holdom, David G.**
 180286 *Unidentified* 2132
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 H3 *Beauveria bassiana* 8706
 KNF2001-10 *Acremonium(?)* sp. 7031
- Hudson, Neal**
 NI8 *Beauveria bassiana* 8317
- IIBC**
 188-370 *Hirsutella* sp. 4513
 188-399 *Hirsutella* sp. 4514
- IMI**
 331276 *Mariannaea* sp. 2930
- IRRI**
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- Keller, Siegfried**
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059 *Lecanicillium longisporum* 3701
93027 Unidentified sp. 3990
93028 Unidentified sp. 3991
93029 Unidentified sp. 3992
93030 Unidentified sp. 3993
93031 Unidentified sp. 3994
93032 *Beauveria bassiana* 3995
93033 *Beauveria bassiana* 3996
93034 Unidentified sp. 3997
94001 *Beauveria bassiana* 4091
94002 *Beauveria bassiana* 4092
94003 *Beauveria bassiana* 4093
94013 *Beauveria bassiana* 4200
94014 Unidentified sp. 4201
94019 Unidentified sp. 4202
94023 *Hirsutella* sp. 4193

Loch, Luiz

CB-75 *Paecilomyces* sp. 3101

Lomer, Christopher J.

SP-127 *Beauveria bassiana* 10348
SP-128 *Beauveria bassiana* 10349

McGuire, Michael R.

2-10 *Beauveria bassiana* 6660
5-43 *Beauveria bassiana* 6661

Meyling, Nicolai Vitt

KVL 03-118 *Beauveria bassiana* 8030
KVL 03-148 *Beauveria bassiana* 8036
KVL 03-72 *Beauveria bassiana* 8025
KVL 03-81 *Beauveria bassiana* 8026
KVL 03-85 *Beauveria bassiana* 8027
KVL 03-90 *Beauveria bassiana* 8028
KVL 03-94 *Beauveria bassiana* 8029

Mikunthan, Gunasingham

GM/15 *Fusarium* sp. 7381

Nasca, A.J.

Bb-T11 *Beauveria bassiana* 2457

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25032 *Fusarium subglutinans* 2143
25081 *Fusarium* sp. 1307
25084 *Fusarium* sp. 1641
25140 *Fusarium subglutinans* 2144
52714 *Fusarium* sp. 6428
52716 *Fusarium* sp. 6409
52718 *Fusarium* sp. 6411
52719 *Fusarium* sp. 6425
52720 *Fusarium* sp. 6410
52721 *Fusarium* sp. 6403
52722 *Fusarium* sp. 6401
52723 *Fusarium* sp. 6402
52748 *Fusarium* sp. 7473

Ostrovská, Katherine

51 *Isaria fumosorosea* 3429

Parker, Bruce L.

SP-379 *Beauveria bassiana* 10351
SP-403 *Beauveria bassiana* 8932
SP-456 *Isaria* sp. 10378
SP-464 *Beauveria bassiana* 10352
SP-475 *Isaria* sp. 10364
SP-482 *Beauveria bassiana* 10353
SP-486 *Isaria* sp. 10366
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SP-504 *Beauveria bassiana* 10357
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SP-515 *Isaria* sp. 10370
SP-516 *Isaria* sp. 10371
SP-518 *Isaria* sp. 10373
SP-531 *Isaria* sp. 10381
SP-564 *Isaria* sp. 10383
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SPT 052 *Lecanicillium psalliotae* 5835
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SPT-032 *Beauveria bassiana* 5674
SPT-036 *Isaria farinosa* 5679
SPT-039 *Isaria farinosa* 5675
SPT-042 *Fusarium* sp. 5680
SPT-050 *Isaria farinosa* 5676
SPT-077 *Lecanicillium psalliotae* 5681
SPT-078 *Fusarium* sp. 5682
SPT-079 *Lecanicillium psalliotae* 5683
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SPT-101 *Beauveria* sp. 5686
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SPT-2-309/2 *Beauveria bassiana* 6086
SPT-2-311 *Lecanicillium muscarium* 6118
SPT-2-312 *Beauveria bassiana* 6087
SPT-2-315 *Beauveria bassiana* 6088
SPT-2-318 *Beauveria bassiana* 6089
SPT-2-319/1 *Purpureocillium lilacinum* 6080
SPT-2-319/2 *Beauveria bassiana* 6090
SPT-2-321/1 *Beauveria bassiana* 6091
SPT-2-345 *Purpureocillium lilacinum* 6114
SPT-2-359 *Purpureocillium lilacinum* 6116
SPT-3-372 *Beauveria bassiana* 6149
SPT-KR-389/1 *Verticillium* sp. 6480
SPT-KZ-377 *Verticillium lecanii* 6479
SPT-KZ-400 *Isaria farinosa* 6481
SPT-KZ-413 *Verticillium* sp. 6485
SPT-KZ-420 *Isaria farinosa* 6490
SPT-KZ-428 *Isaria farinosa* 6493
SPT-KZ-431 *Purpureocillium lilacinum* 6494
SPT-KZ-432 *Isaria farinosa* 6495
SPT-KZ-440 *Isaria farinosa* 6496
SPT-KZ-443 *Isaria farinosa* 6497
SPT-KZ-445 *Verticillium* sp. 6498
SPT-KZ-457 *Verticillium* sp. 6500
SPT-KZ-461 *Purpureocillium lilacinum* 6502
SPT-U-251 *Beauveria bassiana* 6056
SPT-U-259 *Beauveria bassiana* 6060
SPT-U-260 *Beauveria bassiana* 6083
SPT-U-267 *Beauveria bassiana* 6065
SPT-U-268 *Beauveria bassiana* 6066
SPT-U-269 *Beauveria bassiana* 6067
SPT-U-271 *Verticillium lecanii* 6068
SPT-U-272 *Beauveria bassiana* 6069
SPT-U-273 *Beauveria bassiana* 6070
SPT-U-285 *Lecanicillium psalliotae* 6071
SPT-U-291 *Beauveria bassiana* 6072
SPT-U-292 *Beauveria bassiana* 6073
SPT-U-300 *Beauveria bassiana* 6076
SPT-U-306 *Purpureocillium lilacinum* 6084
SPT-U-310 *Beauveria bassiana* 6079
SPT-U-325 *Purpureocillium lilacinum* 6081
SPT-U-326 *Beauveria bassiana* 6093
SPT-U-329 *Purpureocillium lilacinum* 6082
SPT-U-332 *Purpureocillium lilacinum* 6094
SPT-U-341 *Isaria farinosa* 6097
SPT-U-343 *Isaria farinosa* 6098
SPT-U-349 *Beauveria bassiana* 6115
SPT-U-361 *Purpureocillium lilacinum* 6117

Poprawski, Tadeusz J.

001 *Beauveria* sp. 1195
001A *Trichothecium roseum* 1226
002 *Beauveria* sp. 1196
004 *Beauveria* sp. 1197
005 *Beauveria* sp. 1198
0108 *Beauveria bassiana* 1516
0109 *Beauveria bassiana* 1517
0117A *Beauveria bassiana* 1520
0117B *Beauveria bassiana* 1521
0122 *Beauveria bassiana* 1523
0123 *Beauveria bassiana* 1524
0124A *Beauveria bassiana* 1525
0124B *Beauveria bassiana* 1526
0125 *Beauveria bassiana* 1527
0126 *Beauveria bassiana* 1528
0127A *Beauveria bassiana* 1529
0127A(bis) *Isaria fumosorosea* 1530
0127B *Beauveria bassiana* 1531
0127B(bis) *Isaria fumosorosea* 1532
0128A *Beauveria bassiana* 1533
0128B *Beauveria bassiana* 1534
013 *Beauveria* sp. 1199
0130A *Beauveria bassiana* 1535
0130B *Beauveria bassiana* 1536
0131A *Beauveria bassiana* 1537
0131B *Beauveria bassiana* 1538
0132 *Beauveria bassiana* 1539
0133A *Beauveria bassiana* 1540
0133B *Beauveria bassiana* 1635

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0134 *Beauveria bassiana* 1636
 0135A *Beauveria bassiana* 1637
 0135B *Beauveria bassiana* 1638
 0136 *Trichothecium roseum* 1639
 0137 *Beauveria bassiana* 1640
 0138 *Fusarium* sp. 1641
 0139 *Trichothecium roseum* 1642
 014 *Beauveria* sp. 1200
 0140 *Beauveria bassiana* 1643
 0144 *Beauveria bassiana* 1648
 0145 *Beauveria bassiana* 1649
 0146 *Beauveria bassiana* 1650
 0148A *Beauveria bassiana* 1789
 0148B *Beauveria bassiana* 1790
 0149 *Beauveria bassiana* 1791
 0150A *Beauveria bassiana* 1792
 0150B *Beauveria bassiana* 1793
 0150C *Beauveria bassiana* 1794
 0151 *Beauveria bassiana* 1795
 0152A *Beauveria bassiana* 1796
 0152B *Beauveria bassiana* 1797
 0152C *Beauveria bassiana* 1798
 0152D *Beauveria bassiana* 1799
 0154 *Beauveria bassiana* 1800
 0155 *Beauveria bassiana* 1801
 0156 *Beauveria bassiana* 1802
 0157 *Beauveria bassiana* 1803
 0158A *Beauveria bassiana* 1804
 0158B *Beauveria bassiana* 1805
 0158C *Beauveria bassiana* 1806
 0159A *Beauveria bassiana* 1807
 0159B *Beauveria bassiana* 1808
 0160 *Beauveria bassiana* 1809
 0161 *Beauveria bassiana* 1810
 0162 *Beauveria bassiana* 1822
 0163 *Beauveria bassiana* 1812
 0164A *Beauveria bassiana* 1813
 0164B *Beauveria bassiana* 1814
 0175 *Beauveria bassiana* 1988
 0176 *Beauveria bassiana* 1973
 0177 *Beauveria bassiana* 1974
 0187 *Beauveria bassiana* 1984
 023 *Beauveria* sp. 1201
 024 *Beauveria* sp. 1202
 025 *Beauveria* sp. 1203
 026 *Beauveria* sp. 1204
 027 *Beauveria* sp. 1205
 028 *Beauveria* sp. 1206
 030 *Beauveria* sp. 1207
 034 *Beauveria* sp. 1208
 035 *Beauveria* sp. 1209
 037 *Beauveria* sp. 1210
 038 *Beauveria* sp. 1211
 042 *Trichothecium roseum* 1212
 043 *Fusarium* sp. 1307
 044 *Trichothecium roseum* 1308
 046 *Beauveria* sp. 1213
 047 *Beauveria* sp. 1214
 049 *Beauveria* sp. 1215
 050 *Beauveria* sp. 1216
 050A *Trichothecium* sp. 1217
 051 *Beauveria* sp. 1218
 052 *Beauveria* sp. 1219
 057 *Beauveria* sp. 1220
 059 *Beauveria* sp. 1221
 060 *Beauveria* sp. 1222

060A *Trichothecium* sp. 1223
 061 *Beauveria* sp. 1224
 071 *Beauveria bassiana* 1394
 074A *Beauveria bassiana* 1317
 074B *Beauveria bassiana* 1318
 075 *Beauveria bassiana* 1395
 076 *Beauveria bassiana* 1319
 077A *Beauveria bassiana* 1396
 077B *Beauveria bassiana* 1397
 078 *Beauveria bassiana* 1320
 079B *Beauveria bassiana* 1321
 079C *Beauveria bassiana* 1322
 079D *Beauveria bassiana* 1323
 079E *Beauveria bassiana* 1324
 079F *Beauveria bassiana* 1325
 092A *Beauveria bassiana* 1404
 092B *Beauveria bassiana* 1405
 093A *Beauveria bassiana* 1406
 093B *Beauveria bassiana* 1407
 094A *Beauveria bassiana* 1408
 094B *Beauveria bassiana* 1409
 095 *Beauveria bassiana* 1410
 096A *Beauveria bassiana* 1411
 096B *Beauveria bassiana* 1412
 097 *Beauveria bassiana* 1413
 099 *Beauveria bassiana* 1414
 8642 *Beauveria bassiana* 2318
 8643 *Beauveria bassiana* 2319
 8644 *Beauveria bassiana* 2320
 8645 *Beauveria bassiana* 2321
 8646 *Beauveria bassiana* 2322
 8701 *Beauveria bassiana* 2457
 8702 *Beauveria bassiana* 2458
 8706 *Beauveria bassiana* 2461
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 04-91 *Cladosporium cladosporioides* 3375

Rangel, Drauzio Eduardo Naretto
 CPAC H1 *Simplicillium lanosoniveum*
 6430
 CPAC H2 *Verticillium lecanii* 6651
 CPAC H3 *Simplicillium lanosoniveum*
 6431
 CPAC H6 *Simplicillium lanosoniveum*
 6432

Roberts, Donald W.
 82180-13b *Purpureocillium lilacinum* 531

Rombach, Michiel C.
 030786-2 *Hirsutella* sp. 2208
 070786-5 *Hirsutella* sp. 2209
 120286-2 *Metarhizium anisopliae* sensu
 lato 2341
 120286-3 *Metarhizium anisopliae* sensu
 lato 2342
 120286-4 *Metarhizium anisopliae* sensu
 lato 2343
 B *Metarhizium anisopliae* sensu lato
 1432
 II.1 Sterile mycelium 1435
 Ma Pal.I *Metarhizium anisopliae* sensu
 lato 1548
 Ma Pal.II *Metarhizium pingshaense* 1545

Skinner, Margaret
 Ch:BG:60(5WM) *Hirsutella* sp. 2939
 Ch:BG:61(8WM) *Hirsutella* sp. 2940
 PT-11 *Mariannaea* sp. 2930
 SP-473 *Isaria* sp. 10363
 SP-483 *Beauveria bassiana* 10354
 SP-484 *Isaria* sp. 10365
 SP-487 *Isaria* sp. 10367
 SP-500 *Beauveria bassiana* 10356
 SP-514 *Isaria* sp. 10369
 SP-517 *Isaria* sp. 10372
 SP-520 *Isaria* sp. 10374
 SP-523b *Isaria* sp. 10380
 SP-554 *Beauveria bassiana* 10358
 SP-555 *Isaria* sp. 10382
 SP-567 *Beauveria bassiana* 10360
 SP-570 *Isaria* sp. 10376
 SP-572 *Isaria* sp. 10384
 SP-585 *Beauveria bassiana* 10362

Soares, George G.
 3 *Beauveria bassiana* 812
 34 *Beauveria bassiana* 886

Soper, Richard S.
 81226-3 *Beauveria bassiana* 566
 8132 *Beauveria bassiana* 560

Steenberg, Tove
 TT3 *Acremonium psammosporum* 4062
 TT4 *Verticillium lecanii* 5709
 TT4 *Lecanicillium lecanii*(?) 5580
 TT5 *Acremonium* sp. 4063

Stimac, Jerry L.
 UF 5781 *Beauveria bassiana* 5978

Sung, Jae-Mo
 C-208 *Cordyceps* sp. 4846
 C-419 *Polycephalomyces ramosus* 4858
 EFCC 1109 *Beauveria bassiana* 7240
 EFCC 1929 *Beauveria bassiana* 7246
 EFCC 7270 *Beauveria bassiana* 7273
 KEFC-1109 Unidentified / Hyphomycetes 5698
 KEFC-6240 *Beauveria bassiana* 6722

Tiwary, B. N.
 IF-7 *Aspergillus* sp. 8280

Tunali, Berna
 11 *Fusarium* sp. 6394
 12 *Fusarium* sp. 6395
 16 *Fusarium* sp. 6396
 17 *Fusarium* sp. 6425
 18 *Fusarium* sp. 6397
 19 *Fusarium* sp. 6398
 20 *Aspergillus* sp. 6399
 21 *Fusarium* sp. 6428
 22 *Fusarium* sp. 6400
 23 *Fusarium* sp. 6401
 24 *Fusarium* sp. 6402
 25 *Fusarium* sp. 6403
 27 *Beauveria bassiana* 6404
 28 *Beauveria bassiana* 6426
 29 *Aspergillus* sp. 6405
 31 *Aspergillus* sp. 6406
 32 *Aspergillus niger* 6407
 33 *Aspergillus* sp. 6408

34 *Fusarium* sp. 6411
36 *Fusarium* sp. 6409
38 *Fusarium* sp. 6410
39 *Fusarium* sp. 6429

Ugine, Todd A.
NI8 *Beauveria bassiana* 8889
TPB3 *Beauveria bassiana* 8889

300	<i>Beauveria bassiana</i>	1407	<i>Beauveria bassiana</i>	1807	<i>Beauveria bassiana</i>
320	<i>Beauveria bassiana</i>	1408	<i>Beauveria bassiana</i>	1808	<i>Beauveria bassiana</i>
389	<i>Zoophthora radicans</i>	1409	<i>Beauveria bassiana</i>	1809	<i>Beauveria bassiana</i>
394	<i>Furia virescens</i>	1410	<i>Beauveria bassiana</i>	1810	<i>Beauveria bassiana</i>
531	<i>Purpureocillium lilacinum</i>	1411	<i>Beauveria bassiana</i>	1812	<i>Beauveria bassiana</i>
560	<i>Beauveria bassiana</i>	1412	<i>Beauveria bassiana</i>	1813	<i>Beauveria bassiana</i>
566	<i>Beauveria bassiana</i>	1413	<i>Beauveria bassiana</i>	1814	<i>Beauveria bassiana</i>
737	<i>Beauveria bassiana</i>	1414	<i>Beauveria bassiana</i>	1822	<i>Beauveria bassiana</i>
755	<i>Metarhizium anisopliae sensu stricto</i>	1423	Unidentified sp.	1882	<i>Metarhizium anisopliae sensu lato</i>
763	<i>Purpureocillium lilacinum</i>	1432	<i>Metarhizium anisopliae sensu lato</i>	1883	<i>Metarhizium anisopliae sensu lato</i>
792	<i>Beauveria bassiana</i>	1435	Sterile mycelium	1952	<i>Metarhizium robertsii</i>
812	<i>Beauveria bassiana</i>	1448	<i>Metarhizium pingshaense</i>	1973	<i>Beauveria bassiana</i>
886	<i>Beauveria bassiana</i>	1457	<i>Beauveria bassiana</i>	1974	<i>Beauveria bassiana</i>
916	<i>Zoophthora anglica</i>	1474	<i>Beauveria bassiana</i>	1984	<i>Beauveria bassiana</i>
926	<i>Zoophthora anglica</i>	1478	<i>Beauveria bassiana</i>	1988	<i>Beauveria bassiana</i>
933	<i>Beauveria bassiana</i>	1516	<i>Beauveria bassiana</i>	2011	<i>Beauveria bassiana</i>
944	<i>Beauveria bassiana</i>	1517	<i>Beauveria bassiana</i>	2132	
1054	<i>Beauveria bassiana</i>	1520	<i>Beauveria bassiana</i>	2143	<i>Fusarium subglutinans</i>
1055	<i>Metarhizium anisopliae sensu lato</i>	1521	<i>Beauveria bassiana</i>	2144	<i>Fusarium subglutinans</i>
1195	<i>Beauveria</i> sp.	1523	<i>Beauveria bassiana</i>	2191	<i>Beauveria bassiana</i>
1196	<i>Beauveria</i> sp.	1524	<i>Beauveria bassiana</i>	2208	<i>Hirsutella</i> sp.
1197	<i>Beauveria</i> sp.	1525	<i>Beauveria bassiana</i>	2209	<i>Hirsutella</i> sp.
1198	<i>Beauveria</i> sp.	1526	<i>Beauveria bassiana</i>	2212	<i>Metarhizium anisopliae sensu lato</i>
1199	<i>Beauveria</i> sp.	1527	<i>Beauveria bassiana</i>	2213	<i>Metarhizium anisopliae sensu lato</i>
1200	<i>Beauveria</i> sp.	1528	<i>Beauveria bassiana</i>	2214	<i>Metarhizium anisopliae sensu lato</i>
1201	<i>Beauveria</i> sp.	1529	<i>Beauveria bassiana</i>	2215	<i>Purpureocillium lilacinum</i>
1202	<i>Beauveria</i> sp.	1530	<i>Isaria fumosorosea</i>	2318	<i>Beauveria bassiana</i>
1203	<i>Beauveria</i> sp.	1531	<i>Beauveria bassiana</i>	2319	<i>Beauveria bassiana</i>
1204	<i>Beauveria</i> sp.	1532	<i>Isaria fumosorosea</i>	2320	<i>Beauveria bassiana</i>
1205	<i>Beauveria</i> sp.	1533	<i>Beauveria bassiana</i>	2321	<i>Beauveria bassiana</i>
1206	<i>Beauveria</i> sp.	1534	<i>Beauveria bassiana</i>	2322	<i>Beauveria bassiana</i>
1207	<i>Beauveria</i> sp.	1535	<i>Beauveria bassiana</i>	2341	<i>Metarhizium anisopliae sensu lato</i>
1208	<i>Beauveria</i> sp.	1536	<i>Beauveria bassiana</i>	2342	<i>Metarhizium anisopliae sensu lato</i>
1209	<i>Beauveria</i> sp.	1537	<i>Beauveria bassiana</i>	2343	<i>Metarhizium anisopliae sensu lato</i>
1210	<i>Beauveria</i> sp.	1538	<i>Beauveria bassiana</i>	2430	<i>Beauveria bassiana</i>
1211	<i>Beauveria</i> sp.	1539	<i>Beauveria bassiana</i>	2457	<i>Beauveria bassiana</i>
1212	<i>Trichothecium roseum</i>	1540	<i>Beauveria bassiana</i>	2458	<i>Beauveria bassiana</i>
1213	<i>Beauveria</i> sp.	1545	<i>Metarhizium pingshaense</i>	2461	<i>Beauveria bassiana</i>
1214	<i>Beauveria</i> sp.	1548	<i>Metarhizium anisopliae sensu lato</i>	2462	<i>Beauveria bassiana</i>
1215	<i>Beauveria</i> sp.	1570	<i>Pandora neoaphidis</i>	2516	<i>Beauveria bassiana</i>
1216	<i>Beauveria</i> sp.	1635	<i>Beauveria bassiana</i>	2519	<i>Beauveria bassiana</i>
1217	<i>Trichothecium</i> sp.	1636	<i>Beauveria bassiana</i>	2923	<i>Lecanicillium muscarium</i>
1218	<i>Beauveria</i> sp.	1637	<i>Beauveria bassiana</i>	2930	<i>Mariannaea</i> sp.
1219	<i>Beauveria</i> sp.	1638	<i>Beauveria bassiana</i>	2939	<i>Hirsutella</i> sp.
1220	<i>Beauveria</i> sp.	1639	<i>Trichothecium roseum</i>	2940	<i>Hirsutella</i> sp.
1221	<i>Beauveria</i> sp.	1640	<i>Beauveria bassiana</i>	3062	<i>Pandora delphacis</i>
1222	<i>Beauveria</i> sp.	1641	<i>Fusarium</i> sp.	3086	<i>Beauveria bassiana</i>
1223	<i>Trichothecium</i> sp.	1642	<i>Trichothecium roseum</i>	3101	<i>Paecilomyces</i> sp.
1224	<i>Beauveria</i> sp.	1643	<i>Beauveria bassiana</i>	3142	Unidentified / Hyphomycetes
1226	<i>Trichothecium roseum</i>	1648	<i>Beauveria bassiana</i>	3216	<i>Beauveria pseudobassiana</i>
1269	<i>Beauveria bassiana</i>	1649	<i>Beauveria bassiana</i>	3222	<i>Conidiobolus coronatus</i>
1270	<i>Beauveria bassiana</i>	1650	<i>Beauveria bassiana</i>	3252	<i>Mariannaea</i> sp.
1307	<i>Fusarium</i> sp.	1789	<i>Beauveria bassiana</i>	3253	<i>Lecanicillium</i> sp.
1308	<i>Trichothecium roseum</i>	1790	<i>Beauveria bassiana</i>	3254	<i>Lecanicillium</i> sp.
1317	<i>Beauveria bassiana</i>	1791	<i>Beauveria bassiana</i>	3255	<i>Lecanicillium</i> sp.
1318	<i>Beauveria bassiana</i>	1792	<i>Beauveria bassiana</i>	3256	Unidentified sp.
1319	<i>Beauveria bassiana</i>	1793	<i>Beauveria bassiana</i>	3257	<i>Mariannaea</i> sp.
1320	<i>Beauveria bassiana</i>	1794	<i>Beauveria bassiana</i>	3258	<i>Mariannaea</i> sp.
1321	<i>Beauveria bassiana</i>	1795	<i>Beauveria bassiana</i>	3259	<i>Lecanicillium</i> sp.
1322	<i>Beauveria bassiana</i>	1796	<i>Beauveria bassiana</i>	3260	<i>Lecanicillium</i> sp.
1323	<i>Beauveria bassiana</i>	1797	<i>Beauveria bassiana</i>	3261	<i>Mariannaea</i> sp.
1324	<i>Beauveria bassiana</i>	1798	<i>Beauveria bassiana</i>	3262	<i>Mariannaea</i> sp.
1325	<i>Beauveria bassiana</i>	1799	<i>Beauveria bassiana</i>	3263	<i>Mariannaea</i> sp.
1394	<i>Beauveria bassiana</i>	1800	<i>Beauveria bassiana</i>	3264	<i>Mariannaea</i> sp.
1395	<i>Beauveria bassiana</i>	1801	<i>Beauveria bassiana</i>	3265	<i>Mariannaea</i> sp.
1396	<i>Beauveria bassiana</i>	1802	<i>Beauveria bassiana</i>	3266	<i>Hirsutella</i> sp.
1397	<i>Beauveria bassiana</i>	1803	<i>Beauveria bassiana</i>	3267	<i>Mariannaea</i> sp.
1404	<i>Beauveria bassiana</i>	1804	<i>Beauveria bassiana</i>	3268	<i>Mariannaea</i> sp.
1405	<i>Beauveria bassiana</i>	1805	<i>Beauveria bassiana</i>	3269	<i>Mariannaea</i> sp.
1406	<i>Beauveria bassiana</i>	1806	<i>Beauveria bassiana</i>	3270	<i>Mariannaea</i> sp.

3315	Mariannaea sp.	5679	Isaria farinosa	6087	Beauveria bassiana
3316	Mariannaea sp.	5680	Fusarium sp.	6088	Beauveria bassiana
3317	Mariannaea sp.	5681	Lecanicillium psalliotae	6089	Beauveria bassiana
3318	Hirsutella sp.	5682	Fusarium sp.	6090	Beauveria bassiana
3319	Unidentified sp.	5683	Lecanicillium psalliotae	6091	Beauveria bassiana
3375	Cladosporium cladosporioides	5684	Beauveria bassiana(?)	6093	Beauveria bassiana
3429	Isaria fumosorosea	5686	Beauveria sp.	6094	Purpureocillium lilacinum
3449	Beauveria bassiana	5698	Unidentified / Hyphomycetes	6097	Isaria farinosa
3454	Beauveria bassiana	5709	Verticillium lecanii	6098	Isaria farinosa
3456	Beauveria bassiana	5721	Aspergillus niger	6114	Purpureocillium lilacinum
3546	Hirsutella sp.	5722	Aspergillus ochraceus	6115	Beauveria bassiana
3547	Verticillium sp.	5723		6116	Purpureocillium lilacinum
3548	Hirsutella sp.	5724	Beauveria bassiana	6117	Purpureocillium lilacinum
3549	Mariannaea sp.	5725	Beauveria bassiana	6118	Lecanicillium muscarium
3550	Verticillium sp.	5753	Beauveria bassiana	6149	Beauveria bassiana
3551	Verticillium sp.	5755	Fusarium sp.	6288	Isaria farinosa
3552	Verticillium sp.	5756	Aphanocladium album	6394	Fusarium sp.
3553	Hirsutella sp.	5757	Fusarium sp.	6395	Fusarium sp.
3554	Mariannaea sp.	5758	Cylindrocarpon sp.	6396	Fusarium sp.
3555	Mariannaea sp.	5762	Beauveria bassiana	6397	Fusarium sp.
3556	Verticillium sp.	5763	Lecanicillium psalliotae	6398	Fusarium sp.
3557	Mariannaea sp.	5808	Beauveria bassiana	6399	Aspergillus sp.
3558	Mariannaea sp.	5835	Lecanicillium psalliotae	6400	Fusarium sp.
3559	Mariannaea sp.	5868	Entomophthora thripidum	6401	Fusarium sp.
3560	Unidentified sp.	5978	Beauveria bassiana	6402	Fusarium sp.
3561	Verticillium sp.	6008	Beauveria bassiana	6403	Fusarium sp.
3562	Mariannaea sp.	6009	Beauveria bassiana	6404	Beauveria bassiana
3563	Mariannaea sp.	6010	Verticillium lecanii	6405	Aspergillus sp.
3564	Isaria farinosa	6011	Beauveria bassiana	6406	Aspergillus sp.
3570	Unidentified sp.	6012	Isaria farinosa	6407	Aspergillus niger
3683	Lecanicillium lecanii	6013	Beauveria bassiana	6408	Aspergillus sp.
3684	Lecanicillium muscarium	6014	Beauveria bassiana	6409	Fusarium sp.
3685	Lecanicillium muscarium	6015	Beauveria bassiana	6410	Fusarium sp.
3686	Lecanicillium muscarium	6016	Beauveria bassiana	6411	Fusarium sp.
3687	Lecanicillium muscarium(?)	6017	Isaria farinosa	6425	Fusarium sp.
3688	Lecanicillium lecanii	6018	Purpureocillium lilacinum	6426	Beauveria bassiana
3689	Lecanicillium lecanii(?)	6019	Beauveria bassiana	6428	Fusarium sp.
3690	Lecanicillium muscarium	6020	Isaria farinosa	6429	Fusarium sp.
3691	Lecanicillium muscarium	6021	Purpureocillium lilacinum	6430	Simplicillium lanosoniveum
3701	Lecanicillium longisporum	6022	Beauveria bassiana	6431	Simplicillium lanosoniveum
3769	Beauveria bassiana	6023	Beauveria brongniartii	6432	Simplicillium lanosoniveum
3990	Unidentified sp.	6024	Purpureocillium lilacinum	6479	Verticillium lecanii
3991	Unidentified sp.	6025	Verticillium lecanii	6480	Verticillium sp.
3992	Unidentified sp.	6026	Purpureocillium lilacinum	6481	Isaria farinosa
3993	Unidentified sp.	6039	Beauveria bassiana	6485	Verticillium sp.
3994	Unidentified sp.	6040	Beauveria bassiana	6490	Isaria farinosa
3995	Beauveria bassiana	6041	Beauveria bassiana	6493	Isaria farinosa
3996	Beauveria bassiana	6042	Beauveria bassiana	6494	Purpureocillium lilacinum
3997	Unidentified sp.	6043	Beauveria bassiana	6495	Isaria farinosa
4062	Acremonium psammosporum	6044	Isaria farinosa	6496	Isaria farinosa
4063	Acremonium sp.	6056	Beauveria bassiana	6497	Isaria farinosa
4091	Beauveria bassiana	6060	Beauveria bassiana	6498	Verticillium sp.
4092	Beauveria bassiana	6065	Beauveria bassiana	6500	Verticillium sp.
4093	Beauveria bassiana	6066	Beauveria bassiana	6502	Purpureocillium lilacinum
4193	Hirsutella sp.	6067	Beauveria bassiana	6504	Unidentified / Hyphomycetes
4200	Beauveria bassiana	6068	Verticillium lecanii	6512	Conidiobolus coronatus
4201	Unidentified sp.	6069	Beauveria bassiana	6517	Entomophthora thripidum
4202	Unidentified sp.	6070	Beauveria bassiana	6518	Entomophthora thripidum
4513	Hirsutella sp.	6071	Lecanicillium psalliotae	6519	Entomophthora thripidum
4514	Hirsutella sp.	6072	Beauveria bassiana	6520	Entomophthora thripidum
4846	Cordyceps sp.	6073	Beauveria bassiana	6521	Entomophthora thripidum
4858	Polycephalomyces ramosus	6076	Beauveria bassiana	6522	Entomophthora thripidum
5580	Lecanicillium lecanii(?)	6079	Beauveria bassiana	6525	Entomophthora thripidum
5620	Neozygites parvispora	6080	Purpureocillium lilacinum	6548	Verticillium lecanii
5621	Neozygites parvispora	6081	Purpureocillium lilacinum	6607	Isaria farinosa
5665	Beauveria bassiana	6082	Purpureocillium lilacinum	6634	Tolyocladium sp.
5666	Lecanicillium psalliotae	6083	Beauveria bassiana	6635	Evlachovaea sp.
5674	Beauveria bassiana	6084	Purpureocillium lilacinum	6636	Simplicillium lanosoniveum
5675	Isaria farinosa	6085	Verticillium lecanii	6637	Simplicillium lanosoniveum
5676	Isaria farinosa	6086	Beauveria bassiana	6638	Evlachovaea sp.

6639	Evlachovaea sp.	10155	Isaria farinosa	10299	Lecanicillium sp.
6640	Evlachovaea sp.	10157	Isaria farinosa	10300	Lecanicillium sp.
6641	Evlachovaea sp.	10158	Isaria farinosa	10301	Lecanicillium sp.
6642	Simplicillium lanosoniveum	10159	Isaria farinosa	10302	Lecanicillium sp.
6651	Verticillium lecanii	10161	Isaria farinosa	10303	Lecanicillium sp.
6660	Beauveria bassiana	10162	Isaria sp.	10304	Lecanicillium sp.
6661	Beauveria bassiana	10166	Acremonium bactrocephalum	10305	Lecanicillium sp.
6722	Beauveria bassiana	10167	Acremonium bactrocephalum	10306	Lecanicillium sp.
7031	Acremonium(?) sp.	10168	Acremonium bactrocephalum	10307	Unidentified / Hyphomycetes
7075	Paecilomyces sp.	10169	Acremonium bactrocephalum	10309	Scopulariopsis sp.
7147	Beauveria bassiana	10170	Lecanicillium psalliotae	10310	Scopulariopsis sp.
7240	Beauveria bassiana	10175	Lecanicillium psalliotae	10311	Fusarium sp.
7246	Beauveria bassiana	10176	Lecanicillium psalliotae	10312	Fusarium sp.
7273	Beauveria bassiana	10177	Lecanicillium psalliotae	10313	Fusarium sp.
7381	Fusarium sp.	10178	Lecanicillium muscarium	10348	Beauveria bassiana
7473	Fusarium sp.	10180	Lecanicillium psalliotae	10349	Beauveria bassiana
7478	Purpureocillium lilacinum	10181	Lecanicillium psalliotae	10351	Beauveria bassiana
7984	Beauveria bassiana	10182	Lecanicillium psalliotae	10352	Beauveria bassiana
7985	Lecanicillium aphanocladii(?)	10183	Lecanicillium psalliotae(?)	10353	Beauveria bassiana
7986	Lecanicillium aphanocladii(?)	10184	Lecanicillium fusisporum(?)	10354	Beauveria bassiana
8025	Beauveria bassiana	10185	Mariannaea sp.	10355	Beauveria bassiana
8026	Beauveria bassiana	10187	Lecanicillium sp.	10356	Beauveria bassiana
8027	Beauveria bassiana	10188	Lecanicillium sp.	10357	Beauveria bassiana
8028	Beauveria bassiana	10189	Lecanicillium sp.	10358	Beauveria bassiana
8029	Beauveria bassiana	10190	Lecanicillium sp.	10359	Beauveria bassiana
8030	Beauveria bassiana	10191	Unidentified / Hyphomycetes	10360	Beauveria bassiana
8036	Beauveria bassiana	10192	Lecanicillium sp.	10361	Beauveria bassiana
8280	Aspergillus sp.	10193	Lecanicillium sp.	10362	Beauveria bassiana
8317	Beauveria bassiana	10194	Mariannaea sp.	10363	Isaria sp.
8637	Beauveria bassiana	10195	Lecanicillium sp.	10364	Isaria sp.
8638	Beauveria bassiana	10196	Lecanicillium sp.	10365	Isaria sp.
8639	Lecanicillium sp.	10197	Lecanicillium sp.	10366	Isaria sp.
8640	Unidentified / Hyphomycetes	10198	Lecanicillium sp.	10367	Isaria sp.
8706	Beauveria bassiana	10199	Lecanicillium sp.	10368	Isaria sp.
8889	Beauveria bassiana	10200	Lecanicillium sp.	10369	Isaria sp.
8932	Beauveria bassiana	10201	Lecanicillium sp.	10370	Isaria sp.
9266	Pandora heteropterae	10202	Lecanicillium sp.	10371	Isaria sp.
9587	Beauveria bassiana	10203	Lecanicillium sp.	10372	Isaria sp.
9588	Beauveria bassiana	10204	Mariannaea sp.	10373	Isaria sp.
9591	Metarhizium anisopliae sensu lato	10205	Mariannaea sp.	10374	Isaria sp.
9914	Conidiobolus coronatus	10206	Lecanicillium sp.	10375	Isaria sp.
9927	Beauveria bassiana	10207	Lecanicillium sp.	10376	Isaria sp.
9928	Paecilomyces marquandii	10208	Lecanicillium sp.	10377	Isaria sp.
9929	Paecilomyces marquandii	10209	Lecanicillium sp.	10378	Isaria sp.
9930	Lecanicillium sp.	10210	Lecanicillium sp.	10379	Isaria sp.
9931	Lecanicillium sp.	10211	Lecanicillium sp.	10380	Isaria sp.
9932	Mariannaea sp.	10212	Lecanicillium sp.	10381	Isaria sp.
9933	Mariannaea sp.	10213	Lecanicillium sp.	10382	Isaria sp.
9934	Mariannaea sp.	10214	Lecanicillium sp.	10383	Isaria sp.
9935	Lecanicillium sp.	10225	Purpureocillium lilacinum	10384	Isaria sp.
9936	Lecanicillium sp.	10231	Isaria sp.	10385	Isaria sp.
9937	Fusarium sp.	10232	Isaria sp.	10386	Unidentified / Hyphomycetes
9938	Trichoderma sp.	10233	Isaria sp.	10387	Unidentified / Hyphomycetes
10135	Metarhizium anisopliae sensu lato	10282	Unidentified / Hyphomycetes	10388	Fusarium sp.
10136	Metarhizium anisopliae sensu lato	10283	Unidentified / Hyphomycetes	10389	Fusarium sp.
10137	Metarhizium anisopliae sensu lato	10284	Unidentified / Hyphomycetes	10390	Fusarium sp.
10138	Beauveria bassiana	10285	Unidentified / Hyphomycetes	10391	Fusarium sp.
10139	Beauveria bassiana	10286	Unidentified / Hyphomycetes	10392	Unidentified / Hyphomycetes
10140	Beauveria bassiana	10287	Lecanicillium sp.		
10143	Beauveria bassiana	10288	Lecanicillium sp.		
10144	Beauveria bassiana	10289	Lecanicillium sp.		
10145	Beauveria bassiana	10290	Lecanicillium sp.		
10146	Tolypocladium cylindrosporum	10291	Lecanicillium sp.		
10147	Beauveria bassiana	10292	Unidentified / Hyphomycetes		
10148	Beauveria bassiana	10293	Unidentified / Hyphomycetes		
10150	Mariannaea sp.	10294	Lecanicillium sp.		
10151	Mariannaea sp.	10295	Lecanicillium sp.		
10152	Mariannaea sp.	10296	Lecanicillium sp.		
10153	Mariannaea sp.	10297	Lecanicillium sp.		
10154	Lecanicillium sp.	10298	Lecanicillium sp.		